

Technically Superior by Design

2011







RELOADER'S GUIDE

Our Mission: PREMIUM PERFORMANCE, CONSISTENT QUALITY.

List backed by a century of manufacturing experience, and the most exacting quality control procedures in the industry. We check and control chemical composition, the shape and size of powder grains, even the propellants' density and porosity. We send samples of every batch to our ballistics lab, testing, among other things, for burning speed. Then, after blending batches together for exactly the right ballistic characteristics, we use our advanced computerized equipment to test again.

The result: a line of products known and respected for consistent quality and performance— not only in the lab, but especially on the firing line. One of the reasons you're a reloader, after all, is so you'll know exactly what to expect every time you pull the trigger. With Alliant powders you will. Not only shell after shell, but also year after year.



Functional Wholesaler Approval List

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Wholesaler	Location	Phone #
AcuSport	Utah and Ohio	937-593-7010
AmChar Inc	New Hampshire	585-328-3951
CAC	Pennsylvania	814-472-4430
Camfour	Massachusetts	413-568-9663
Continental	Wisconsin	608-779-9820
Dawson Enterprises	Ohio	330-833-0014
Denny's Sporting Goods	Ohio	330-534-3707
Gene Sears Distributors	Oklahoma	405-262-2647
Graf & Sons	Missouri	800-531-2666
Gunarama	Washington	509-535-3040
Hill Country Wholesale	Texas	800-777-2666
John Emmett	Canada	905-227-3342
L. M. Burney Inc	Texas	800-737-3006
Lawry Targets	Canada	905-765-3342
North East Distributors	New York	585-248-0953
Pacific Flyway	Utah	801-304-4365
Parks & Son	North Carolina	800-992-6504
Rileys' Inc.	Indiana	260-897-2351
Schanz Shooters Supply	Michigan	269-692-2897
Sports South	Louisiana	800-388-3845
Sunset Distributors	Iowa	641-847-2464
Trainer Hale Supply	Texas	830-420-4530
W.A. Murphy	California	626-444-9271
Western Powder	Montana	406-234-0422
W.L. Baumler Co.	Ohio	830-420-4530

A DANGER!

READ THE SAFETY SECTION (PAGES 4-15) OF THIS MANUAL PRIOR TO ENGAGING IN RELOADING.

TABLE OF CONTENTS

	Page
Mission Statement & List of Functional Wholesalers	2
Table of Contents	3
Important Safety Instructions	
SAAMI Information	4-7
Safety/Conditions & Disclaimers	8-9
Handloading Precautions & Technical Data	9-15
Powder Bushing Charts	16-17
Shotshell Reloading Data	
Non-Toxic Shotshell Load Data	18-20
International Loads	20-22
10 Gauge Loads	22-23
12 Gauge Loads	23-56
Cheddite	23
Remington	23-31
Winchester	31-38
Federal Plastic	38-43
Federal Paper	44-47
Alliant Powder Family Lineup	Inser
Extra-Lite (Smokeless Shotshell Powder)	Insert A, B
Fiocchi	47-49
12 Gauge Heavy Loads	49-52
12 Gauge 3 Inch Loads	53-54
12 Gauge 3 1/2 Inch Loads	55-56
16 Gauge Loads	56
20 Gauge Loads	56-59
28 Gauge Loads	60-61
410 Bore Loads	61
Centerfire Metallic Loads	
Cowboy Action Handgun Load Data	62-63
Pistol/Revolver Load Data	63-71
Rifle Load Data	71-91
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SAAMI INFORMATION

SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE, INC. 11 Mile Hill Road, Newtown, CT 06470-2359

DANGER! SMOKELESS GUNPOWDER EXTREMELY FLAMMABLE KEEP AWAY FROM HEAT, SPARKS OR OPEN FLAME STORE IN A COOL DRY PLACE KEEP OUT OF REACH OF CHILDREN

SMOKELESS POWDER: PROPERTIES AND STORAGE

Ammunition handloading has become increasingly popular in recent years. This leaflet discusses properties of smokeless powder and offers recommendations for its storage.

This information is intended to increase the knowledge of all concerned individuals and groups regarding smokeless powder. The statements and recommendations made are not intended to supersede local, state or Federal regulations. Proper authorities should be consulted on regulations for storage and use of smokeless powder in each specific community. A second set of information entitled, "SPORTING AMMUNITION PRIMERS: PROPERTIES, HANDLING, & STORAGE FOR HANDLOADING" supplements this information on smokeless powder.

PROPERTIES OF SMOKELESS POWDER

Smokeless powders, or propellants, are essentially mixtures of chemicals designed to burn under controlled conditions at the proper rate to propel a projectile from a gun.

Smokeless powders are made in three forms:

- 1. Thin, circular flakes or wafers
- 2. Small cylinders, both perforated and unperforated
- 3. Small spheres or flattened spheres

Single-base smokeless powders derive their main source of energy from nitrocellulose.

The energy released from double-base smokeless powders is derived from both nitrocellulose and nitroglycerin.

All smokeless powders are extremely flammable; by design, they are intended to burn rapidly and vigorously when ignited.

Oxygen from the air is not necessary for the combustion of smokeless powders since they contain sufficient built-in oxygen to burn completely, even in an enclosed space such as the chamber of a firearm.

Ignition occurs when the powder granules are heated above their ignition temperature. This can occur by exposing the powder to:

- 1. A flame such as a match or a primer flash.
- 2. An electrical spark or the sparks from welding, grinding, etc.
- 3. Heat from an electric hot plate or a fire directed against or near a closed container even if the powder itself is not exposed to the flame.

When smokeless powder burns, a great deal of gas at high temperature is formed. If the powder is confined, this gas will create pressure in the surrounding structure. The rate of gas generation is such, however, that the pressure can be kept at a low level if sufficient space is available or if the gas can escape.

In this respect smokeless powder differs from blasting agents or high explosives such as dynamite or blasting gelatin, although smokeless powder may contain chemical ingredients common to both of these products.

Smokeless powder does not detonate like high explosives as it has a controlled rate of burn and differs considerably in its burning characteristics from common "black powder." Black powder burns at essentially the same rate out in the open (unconfined) as when in a gun.

When ignited in an unconfined state, smokeless powder burns inefficiently with an orange-colored flame. It may produce a considerable amount of light brown noxious smelling smoke. It leaves a residue of ash and partially burned powder. The flame is hot enough to cause severe burns.

When it burns under pressure as in a cartridge fired in a gun, smokeless powder produces very little smoke, a small glow, and leaves very little or no residue. The burning rate of smokeless powder increases with increased pressure.

If burning smokeless powder is confined, gas pressure will rise and eventually can cause the container to burst. Under such circumstances, the bursting of a strong container creates effects similar to an explosion.

For this reason, the U.S. Department of Transportation (formerly Interstate Commerce Commission) sets requirements for shipping containers for propellants and requires tests of loaded containers under actual fire conditions before approving them for use.

When smokeless powder in DOT approved containers is ignited during such tests, the container seams split open or lids pop off to release gases and powder from confinement at low pressure.

Additional details are available in a SAAMI video "Smokeless Powder and the Fire Service."

HOW TO CHECK SMOKELESS POWDER FOR DETERIORATION

Although modern smokeless powders contain stabilizers and are basically free from deterioration under proper storage conditions, safe practices require a recognition of the signs of deterioration and its possible effects.

Deteriorating smokeless powders produce an acidic odor and may produce a reddish brown fume. (Don't confuse this with common solvent odors such as alcohol, ether and acetone.) Powder deterioration can be checked by opening the cap on the container and smelling the contents. Powder undergoing deterioration has an irritating acidic odor.

Dispose of deteriorating smokeless powders immediately. Check to make certain that powder is not exposed to extreme heat as this may cause deterioration. Such exposure produces an acidity which accelerates further reaction and has been known, because of the heat generated by the reaction, to cause spontaneous combustion.

Never salvage powder from old cartridges and do not attempt to blend salvaged powder with new powder or attempt to blend two types of powder to make a "custom" blend. Don't accumulate old powder stocks.

Smokeless powder is intended to function by burning, so it must be protected against accidental exposure to flame, sparks or high temperatures.

For these reasons, storage enclosures should be made of insulating materials to protect the powder from external heat sources.

Once smokeless powder begins to burn, it will continue to burn (and generate gas pressure) until it is consumed

DOT-approved containers are constructed to open up at low internal pressures to avoid the effects normally produced by the rupture or bursting of a strong container.

Storage enclosures for smokeless powder should be constructed in a similar manner:

1. Of fire-resistant and heat-insulating materials to protect contents from external heat.

2. Sufficiently large to vent the gaseous products of combustion satisfactorily which would result if the quantity of smokeless powder within the enclosure accidentally ignited.

If a small, tightly enclosed storage enclosure is loaded to capacity with containers of smokeless powder, the enclosure will expand or move outwards to release the gas pressure - if the powder in storage is accidentally ignited.

Under such conditions, the effects of the release of gas pressure are similar or identical to the effects produced by an explosion.

Therefore, storage of smokeless powder should be in strict compliance with all applicable regulations and recommendations of the National Fire Protection Association.

RECOMMENDATIONS FOR STORAGE OF SMOKELESS POWDER

Store in a cool, dry place. Be sure the storage area selected is free from any possible sources of excess heat and is isolated from open flame, furnaces, hot water heaters, etc. Do not store smokeless powder where it will be exposed to the sun's rays. Avoid storage in areas where mechanical or electrical equipment is in operation. Restrict from the storage areas heat or sparks which may result from improper, defective or overloaded electrical circuits.

Do not store smokeless powder in the same area with solvents, flammable gases or highly combustible materials. Store only in department of transportation approved containers.

Do not transfer the smokeless powder from an approved container into one which is not approved.

Do not smoke in areas where powder is stored or used. Place appropriate "**No Smoking**" signs in these areas.

Do not subject the storage cabinets to close confinement.

Storage cabinets should be constructed of insulating materials and with a weak wall, seams or joints to provide an easy means of self-venting.

Do not keep old or salvaged powders. Check old powders for deterioration regularly. Destroy deteriorated powders immediately.

Obey all regulations regarding quantity and methods of storing. Do not store all your smokeless powders in one place. If you can, maintain separate storage locations. Many small containers are safer than one large container.

Keep your storage and use area clean. Clean up spilled powder promptly. Make sure the surrounding area is free of trash or other readily combustible materials

11-3 SMOKELESS PROPELLANTS

- **11-3.1** Quantities of smokeless propellants not exceeding 25 lb. (11.3kg), in shipping containers approved by the U.S. Department of Transportation, may be transported in a private vehicle.
- **11-3.2** Quantities of smokeless propellants exceeding 25 lb. (11.3kg) but not exceeding 50 lb. (22.7 kg), transported in a private vehicle, shall be transported in a portable magazine having wood walls of at least 1-inc. (25.4-mm) nominal thickness.
- **11-3.3** Transportation of more than 50 lb. (22.7 kg) of smokeless propellants in a private vehicle is prohibited.
- **11-3.4** Commercial shipments of smokeless propellants in quantities not exceeding 100 lb. (45.4kg) may be reclassed for transportation purposes as flammable solids (Division 4.1) when packaged according to U.S. Department of Transportation Hazardous Materials Regulation ((Title 49, Code of Federal Regulations, Part 173.171), and shall be transported accordingly.

- **11-3.5** Commercial shipments of smokeless propellants exceeding 100 lb. (45.4 kg) or not packaged in accordance with the regulations cited in 11-3.4 shall be transported according to the U. S. Department of Transportation regulations for Division 1.3C propellant explosives.
- **11-3.6** Smokeless propellants shall be stored in shipping containers approved by U.S. Department of Transportation.
- **11-3.7** Smokeless propellants intended for personal use in quantities not exceeding 20 lb. (9.1 kg) shall be permitted to be stored in original containers in residences. Quantities exceeding 20 lb. (9.1 kg), but not exceeding 50 lb. (22.7 kg), shall be permitted to be stored in residences where kept in a wooden box or cabinet having walls of at least 1-in. (25.4-mm) nominal thickness.
- **11-3.8** Not more than 20 lb. (9.1 kg) of smokeless propellants, in containers of 1 lb. (0.45 kg) maximum capacity, shall be displayed in commercial establishments.
- 11-3.9 Commercial stocks of smokeless propellants should be stored as follows:
- (a) Quantities exceeding 20 lb. (9.1 kg), but not exceeding 100 lb. (45.4 kg) shall be stored in portable wooden boxes having walls of at least 1 in. (25.4 mm) thickness.
- (b) Quantities exceeding 100 lb. (45.4 kg), but not exceeding 800 lb. (363 kg), shall be stored in non-portable storage cabinets having walls of at least 1 in. (25.4 mm) thickness. Not more than 400 lb. (181 kg) shall be permitted to be stored in any one cabinet and cabinets shall be separated by a distance of at least 25 ft (7.63 m) or by a fire partition having a fire resistance of at least 1 hour.
- (c) Quantities exceeding 800 lb. (363 kg), but not exceeding 5,000 lb. (2268 kg), shall be permitted to be stored in a building, provided the following requirements are met:
- 1. The warehouse or storage room shall not be accessible to unauthorized personnel.
- 2. Smokeless propellant shall be stored in non-portable storage cabinets having wood walls at least 1 in. (25.4 mm) thickness and having shelves with no more than 3 ft (0.92 m) of separation between shelves.
- 3. No more than 400 lb. (181 kg) shall be stored in any one cabinet.
- 4. Cabinets shall be located against the walls of the storage room or warehouse with at least 40 ft (12.2 m) between cabinets.
- 5. The separation between cabinets may be reduced to 20 ft (6.1m) where barricades twice the height of the cabinets are attached to the wall, mid-way between each cabinet. The barricades shall extend at least 10 ft (3m) outward, shall be firmly attached to the wall, and shall be constructed of ¼ in. (6.4-mm) boiler plate, 2 in (51-mm) thick wood, brick, or concrete block.
- 6. Smokeless propellant shall be separated from materials classified by the US Department of Transportation as flammable liquids, flammable solids, and oxidizing materials by a distance of 25 ft (7.63mm) or by a fire partition having a fire resistance of at least 1 hour.
- 7. The building shall be protected by an automatic sprinkler system installed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems.
- (d) Smokeless propellants not stored according to 11.39 (a), (b) and (c) above shall be stored in a Type 4 magazine constructed and located in accordance with Chapter 6.

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A DANGER!

Millions of men and women reload ammunition as a hobby, or because the cost savings allow them to enjoy shooting more often. You should always reload so that the safest and most accurate loads on the shooting line will be yours, and always remember that to become or to continue to be a safe reloader, you must be careful at all times. As a reloader, you are dealing with and manufacturing explosive materials; handling powders and primers that can, if misused, explode or burn, causing property damage, serious personal injury--even death! Later, when you shoot the ammunition you've produced and checked, you will be the person closest to the gun, the one most likely to be injured if improperly loaded ammunition causes your gun to malfunction.

Protect yourself by studying books that describe safe reloading techniques in detail. When using smokeless powders, use only the exact type and quantity described herein. Always store and use your smokeless powders in accordance with the guidelines listed in this booklet.

A POWDER WARNINGS!

- <u>NEVER</u> substitute smokeless powder for black powder, or for black powder substitutes.
- <u>NEVER</u> mix together any two powders, regardless of type, brand, style, or source.
- Violation of any of the above could result in severe personal injury (including death) or gun damage.

• **NEVER** use the data in this Reloaders' Guide for any other powders, even if advertised "similar to Bullseye" or "burns the same as Red Dot," etc.

A WARNING! — BE SURE TO:

- The powder charge weights listed in our data tables are maximum. For rifle and pistol loads, the maximum powder charge should be reduced by 10% to establish a minimum or starting powder charge.
- All loads have been tested in our ballistics lab with SAAMI approved, un-vented test barrels.
 Keep in mind that such test equipment often yields higher velocities than are usually obtained with sporting arms.
- If ever you are unsure of your load data, or if you detect any signs of high pressure while using load data from this Guide, stop loading or testing at once. Contact our technical service personnel at 800-276-9337 before proceeding.
- Instructions for proper handling, storage and disposal are given on pages 4-7 (SAAMI instructions).

BALLISTICS

The ballistic data shown in this booklet were obtained in the laboratory under strictly controlled conditions. **You must load only the exact combinations that are listed.** Even then, different reloading techniques, plus industrial tolerances of each component, likely will cause your ammunition, or ammunition loaded by other competent laboratories, to yield slightly different ballistic data. Therefore, **powder charge recommendations in this booklet <u>must never be exceeded.</u> Safe shooters and hunters know that accuracy, not maximum power, is their key to success.**

FOR TECHNICAL ASSISTANCE

For Technical Assistance or for any information not included in this *Reloaders' Guide*, please call 1-800-276-9337.

For our interactive Reloaders' Guide on the Web, click onto www.alliantpowder.com.

Our e-mail address is: alliant.reloading@atk.com

DISCLAIMER

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A <u>DANGER!</u> HANDLOADING PRECAUTIONS & TECHNICAL DATA

Pistol and Revolver Cartridges Special Reloading Precautions

Most pistols and revolvers function best when loaded with a quick-burning powder such as Bullseye. Since peak pressure is reached very quickly, the seating depth of the bullet is very important: the deeper the bullet, the higher the pressure. If the bullet is seated too deeply, dangerous pressures will be generated, which could burst the gun and cause severe personal injury (including death).

Equally critical is the powder charge. Guard against multiple charges when reloading. Certain cartridges (notably .38 Special) have been reloaded accidentally with double and even triple charges, with catastrophic results when fired in the gun.

A. Prevent deeply seated bullets.

- Your assembled cartridges must be as long as, or longer than, the minimum length listed for the combination you are reloading.
- 2. Set your bullet station accordingly and lock tool securely.
- 3. Keep bullet station clean of accumulating lead and grease.
- 4. Inspect all loaded rounds for overall length.
- 5. Be sure every bullet is held tightly by shell mouth, especially pistol loads (recoil drives magazine against bullet noses of contained cartridges).

B. Prevent multiple charges.

- 1. Handloading: Keep track of every powder charge, then look inside all shells and compare powder levels.
- 2. Progressive reloading: Be sure every shell is truly empty; don't back up the turret; don't jiggle the handle; don't use a shell to clean out the powder train (use a paper cup or equivalent).

C. Inspection.

- 1. Discard cases with split mouths.
- 2. Discard cases with enlarged primer pockets.
- **3.** Do not use cases that are designed for primer-propelled practice cartridges; such cases may not be designed for full power loads.

Physical Effect of Gun Recoil (Kick)

The rearward motion of every gun, its recoil, increases when heavier shot or heavier bullets are fired, and when higher velocity loads are fired. This motion must be opposed by the shoulder, or the pistol hand, of the shooter. Whenever the recoil is perceptibly annoying to the shooter, accuracy on succeeding firings undoubtedly diminishes.

When the shooting condition demands heavy loads and high velocity, recoil kick can be reduced by using a heavier gun, and by spreading the force over a larger area of the anatomy, such as by using a wider stock, larger grip, plus shoulder pad or softer grip.

Excellent publications available to the reloader, plus his or her own growing sophistication, have generated a wholesome trend away from maximum loads and toward accuracy of loads no more powerful than needed for the intended purpose. Reducing recoil increases accuracy.

Contributing to increased accuracy as well as the pleasantness of shooting is in two main areas:

- 1. This Reloaders' Guide includes many reduced loads.
- 2. Our research indicates that the burning rate of powders has a modest effect on recoil. For example, whenever two or more powders are listed for the same load, the slower one usually is chosen by the expert shooter as giving milder felt recoil. An intriguing aspect of reloading at home is the freedom to assemble, for example, trap loads with Red Dot or Green Dot powder, then to shoot them alternately to decide which seems more comfortable.

A DANGER! Handloading Precautions

- 1. Understand what you are doing and why. Read handbooks and manuals on reloading. Talk to experienced reloaders. Write or call suppliers of components if you have questions or are in doubt.
- 2. Stay alert when reloading. Do not reload when distracted.
- 3. Establish a loading procedure and follow it. Do not vary your sequence of operations.
- **4. Examine empty cases** (shotshell or metallic) to be sure they are in good condition before reloading. Never force live cartridges into or out of the chamber of a gun.
- 5. Do not use cases that are designed for primer-propelled practice cartridges; such cases may not be designed for full power loads.
- **6. Do not ream out or** *enlarge* **flash holes of metallic cartridge cases.** This may change the ignition rate and result in dangerous pressures.
- 7. Do not punch out live primers. Fire the empty primed shells in a gun.
- **8. Do not mix primers.** Primers differ in brisance of ignition, which affects pressure and velocity. Use only the primer listed.
- 9. The shotshell loading data in the *Reloaders' Guide* are for *LEAD SHOT only. Use steel shot only as specified* in the steel shot data section (pgs. 18-20).
- **10**. One-piece plastic wads for shotshells vary in compressibility and gas-sealing effectiveness. Use only the wad listed.
- 11. If you "throw," or measure powder charges by volume, check-weigh the charge frequently. Do not mix powders.
- **12. Do not use powders near a flame, spark-producing machinery, or heating device.** Do not expose powders to temperatures above 100°F.
- 13. Keep out of reach of children.
- 14. Do not smoke while reloading.

Smokeless Powders for Reloading

We currently offer 27 powders for use in reloading. These are listed in the order of decreasing burning rates. Each powder listed is "slower" than those preceding it and "faster" than those following it. Among these Alliant smokeless powders, for example, Red Dot® burns more slowly than Bullseye®, but faster than Green Dot®.

Powder	Principal Use ¹	Can Also be Used In ¹
Bullseye®	Handgun Loads	.45 ACP Target
Extra-Lite™	7/8 ounce 12-Gauge Target Loads	1 ounce 12-Gauge Target Loads
e3®	12-Gauge Target Loads	Light Target Loads
Red Dot®	Light and Standard Shotshell Loads, 12-Gauge	Handgun Loads
Promo®	Light and Standard Shotshell Loads, 12-Gauge	Handgun Loads
Clay Dot®	12-Gauge Target Loads	Light Target Loads
American Select®	12-Gauge Target Loads	Handgun Loads
Green Dot®	Standard and Medium Shotshell Loads, 12- and 16-Gauge	Handgun Loads
20/28®	28-Gauge Target Loads	20-Gauge Target Loads
Unique®	All-Around Shotshell Powder, 12-, 16-, 20-, and 28-Gauge	Handgun Loads
Power Pistol®	High performance pistol loads such as the 9mm, .40 S&W, and 10mm	Moderate pressure pistol cartridges like the .38 Special, .380 Auto, and .45 ACP
Herco [®]	Heavy Shotshell Loads, 10-, 12-, 16-, 20-, and 28-Gauge	Heavy Handgun Loads
Blue Dot®	Magnum Shotshell Loads, 10-, 12-, 16-, 20-, and 28-Gauge	Magnum Handgun Loads
Pro Reach®	Long Range Target	Hunting Loads
Steel®	Steel Shotshell, 10- and 12-Gauge	Magnum, Shotshell and Turkey Loads
410 [®]	410 Bore Target Loads	
2400®	Magnum Handgun Loads	Some Rifle and Shotshell Loads
Power Pro® 300-MP	Magnum Handgun Loads	
Reloder® 7	Light Rifle Loads	Silhouette Loads
Reloder 10X®	Light Varmint/Light Bullet Loads	Bench rest calibers; Light Bullet 308
Power Pro® Varmint	Standard Varmint	Medium Rifle Loads
Power Pro® 2000-MR	Heavy 308	
Reloder® 15	Medium Rifle Loads	Silhouette Loads
Reloder® 17	Short Magnum Loads	Medium Rifle Loads
Reloder® 19	Large Rifle Loads	Target and hunting rifle loads
Reloder® 22	Magnum Rifle Loads	Maximum hunting loads
Power Pro® 4000-MR	Heavy 308	
Reloder® 25	Large Magnum Rifle Loads	Maximum hunting loads
Reloder® 50	50-caliber Target	

¹Use only in the loads printed in this Guide

Packaging

Powder	1-lb Canister	4-lb Canister	5-lb Canister	8-lb Keg
Bullseye, Red Dot, American Select, Green Dot, Unique, Herco, 2400, e3, 410, 20/28	Х	х		Х
Power Pistol	Х	Х		
Pro Reach, Extra-Lite	Χ			X
Power Pro Series	Х			X
Blue Dot	Χ		X	
Reloder Series	Χ		X	
Steel	Х	Х		
Promo, Clay Dot				X

All 27 powders are always in stock at distributors' magazines throughout the U.S.A., and in most countries where All 27 powders are always in stock at distributors' magazines throughout the U.S.A., and in most countries where reloading is legally permitted and popular. Any reloader unable to purchase any of the 27 powders at retail stores that handle powders should write to the address on the back cover. We cannot ship directly, but we will endeavor to correct supply shortages in your area.

Powder Information

Smokeless sporting propellants are of two basic types – single-base and double-base. Single-base propellants derive their energy from nitrocellulose and double-base from a combination of nitrocellulose and nitroglycerin. Alliant propellants range from the "near" single-base American Select (2% nitroglycerin) to the high nitroglycerin (40%) double-base Bullseye. In addition, our propellants contain stabilizers for long storage life and various other ballistic modifiers which reduce flash, improve combustion efficiency, and promote clean burning.

Some of our propellants also have a chemical coating on the surface to control the burning rate. This creates a progressive burn for achieving higher velocities at lower pressures. All of our propellants have a graphite glaze, which ensures smooth, consistent metering of charges through volumetric reloaders.

Alliant propellants are extruded and cut into circular flakes or cylinders by precision dies and cutting equipment. Granule size tolerances are very tight and uniform to prevent separation of different size granules and to ensure consistent ballistic performance, load after load.

By utilizing a precise combination of chemical formulation, granule size, and chemical coatings, we are able to tailor the burning characteristics of our propellants to achieve the best overall performance in a wide range of loads.

Because each of our propellants is specifically engineered to have different burn rates and performance characteristics, NEVER BLEND OR MIX DIFFERENT POWDERS, AND USE ONLY THE POWDER AND QUANTITY RECOMMENDED IN THIS RELOADER'S GUIDE.

All powders burn with great precision and rapidity inside the gun chamber, generating the hot, high-pressure gas that accelerates the bullet (or shot) and drives it toward the target. It is critically important for safety that the powder used is matched to the bullet (or shot) weight and other factors; otherwise, the gun parts may be deformed or may even burst and cause serious personal injury (including death). Shot-to-shot accuracy can also be degraded by deviations from recommended loads. Even after 80 years of producing and testing powders, ballisticians are unable to calculate and predict exact ballistic results; we must test-fire our powders with each set of components and record the results. Therefore, the ballistic values and recommended combinations listed in this booklet must be followed without deviation.

Working up charges. For shotgun loads, use the charge weight shown. However, for all rifle and pistol loads, first load and fire a few cartridges at the starting charge weight, watching for any sign of excessive pressure (difficult extraction, flattened or blown primers, unusual recoil).

Handgun loads. Many pistol and revolver loads require only small amounts of fast-burning powders; therefore: (1) guard against accidental <u>double charges</u>, and <u>even multiple charges</u>, whether loading with handtools or with progressive loading devices; (2) be sure that each bullet is positioned in the case so that the minimum overall length is not violated.

Dram Equivalent

Prior to the commercialization of smokeless powder, shotgun shells were loaded with black powder. The weight measurement system used for black powder was "drams." Compared with black powder, **smokeless powder is more dense and much more energetic, so it cannot safely be measured and used like black powder.** Indeed, a different weight system was selected for smokeless powder: "grains," wherein 7,000 grains equal one pound.

Since many shooters still wanted to be able to compare their smokeless powder loads with the original black powder loads, the term "dram equivalent" evolved. Simply stated, the dram equivalent is an indicator of the velocity of a particular shot load. But note that the charge and weight of smokeless powder must not be calculated from the dram equivalent.

Notice

We have inserted information on the properties and storage of smokeless powder for your understanding, so that you can avoid unnecessary risks when using it. This information, on pages 4-7, was published initially by the Sporting Arms and Ammunition Manufacturers' Institute, Inc., several years ago in the interest of safety. You must read these pages carefully and comply with the precautions listed. If you have questions, please call or write to us at the address on the back cover.

Important Safety and Health Precautions

<u>ADANGER!</u> SMOKELESS GUNPOWDER - EXTREMELY FLAMMABLE KEEP AWAY FROM SPARKS OR HEAT SOURCE FAILURE TO FOLLOW THESE WARNINGS COULD RESULT IN INJURY OR DEATH.

- 1. DO NOT smoke when reloading.
- 2. DO NOT use spark-producing tools.
- 3. DO NOT mix powders of different kinds.
- 4. DO NOT leave powder where children can get it.
- 5. DO NOT try to load when distracted.
- 6. AVOID AN OPEN FIRE OR WORKING NEAR SPARK-PRODUCING MACHINERY OR ANY HEAT SOURCE.
- 7. Pour out only the amount of powder needed for immediate work.
- Check the powder measure each time it is used. Make sure the settings have not been accidentally changed. Check-weigh "thrown charges" frequently.
- Clean up any spilled powders. Use a brush and dustpan; do not use a vacuum cleaner. Dispose of spilled powder as described in the SAAMI pages of this Guide.
- 10. Store powder only in its original container, which was carefully designed for this usage. DO NOT REPACKAGE. Do not purchase or accept any Alliant powder not in its original, FACTORY-SEALED container.
- 11. Be sure the powder container is completely empty before discarding. Do not use the container to store other powders or materials, or for any other purpose.
- 12. Always keep in mind that SMOKELESS POWDER IS AN EXPLOSIVE MATERIAL AND HIGHLY FLAMMABLE. It should always be stored and handled in such a way as to avoid impact, friction, heat, sparks, or flame.
- 13. Wear safety glasses when reloading.
- 14. A DANGER! THIS MATERIAL CONTAINS NITROGLYCERIN. Inhalation, skin contact, or ingestion may cause severe headache, nausea, and lowering of blood pressure. THEREFORE, THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN HANDLING POWDERS:
 - A. Do not take internally. In case of ingestion, cause vomiting. Call a physician.
 - B. Avoid contamination of food, beverages, or smoking materials.
 - C. Avoid breathing dust. Ensure adequate ventilation during handling.
 - D. Wash thoroughly after handling and before eating, drinking, or smoking.
 - E. Do not carry powder in clothing.

You must also always remember:

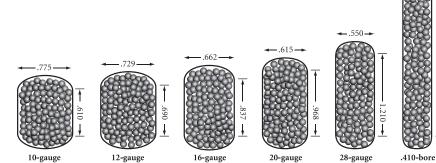
- 1. Establish a routine for reloading. It will result in more uniform loads and less chance of error.
- 2. Some primers are more powerful than others (they produce more gas at a higher temperature). **Use only the primers specified herein.**
- 3. Shotshell wads differ in their sealing ability. Use only the load combinations specified herein.
- 4. If you use cast bullets, their diameter, hardness, lubrication, and crimp will affect the ballistics.
- The shotshell loads in this booklet are for use with LEAD SHOT ONLY! For steel shot see special steel section, pages 18-20.
- 6. Use only the brands of powder and components shown in our tables. Do not substitute other types.
- 7. Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead, a substance known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands and face thoroughly after handling and before coming in contact with food, chewing materials, and smoking material.

Reference Tables

Approximate	Number of P	ellets in Spec	ific Weights o	f Lead Shot (S	izes 2 Throug	h 9)		
Weight, oz	No. 2	No. 4	No. 5	No. 6	No. 7 1/2	No. 8	No. 8 1/2	No. 9
1/2	45	67	85	112	175	205	242	292
3/4	67	101	127	168	262	308	363	439
7/8	79	118	149	197	306	359	425	512
1	90	135	170	225	350	410	485	585
1 1/8	101	152	191	253	393	461	545	658
1 1/4	112	169	213	281	437	513	605	731
1 3/8	124	186	234	309	481	564	665	804
1 1/2	135	202	255	337	525	615	730	877

Space Occupied by One Ounce of Lead Shot

in Various Gauges (Values are Inches)



Internal Diameter of the Barrel in Several Shotgun Gauges

10-Gauge—0.775-Inch

12-Gauge - 0.729-Inch

16-Gauge—0.662-Inch

20-Gauge - 0.615-Inch

28-Gauge - 0.550-Inch

.410-Bore - 0.410-Inch

Number of Shells That Can Be Loaded with One Pound of Powder at Various Grains Per Load (The term grain is a measure of weight: 7,000 grains equal one pound)

	•										
Grains/ Load	Loads/ Pound										
12	583	23	304	34	205	45	156	56	125	67	104
13	538	24	291	35	200	46	152	57	123	68	103
14	500	25	280	36	194	47	149	58	121	69	101
15	466	26	269	37	189	48	146	59	119	70	100
16	437	27	259	38	184	49	143	60	117	71	99
17	411	28	250	39	179	50	140	61	115	72	97
18	388	29	241	40	175	51	137	62	113	73	96
19	368	30	233	41	170	52	135	63	111	74	95
20	350	31	225	42	166	53	132	64	109	75	93
21	333	32	218	43	162	54	130	65	108	76	92
22	318	33	212	44	159	55	127	66	106	77	91

Typical Percentage of Pellets in a 30-Inch Circle at 40 Yards (Pattern) for Various Choke Sizes

(Choke is a Constriction at the Muzzle of a Shotoun Barrel)

Full Choke—70% Modified Choke—55% True Cyli Improved Modified Choke—65 to 70% Improved Cylinder—50%

True Cylinder—40%

Ballistic Data

The velocity and pressure obtained with the specific combinations of shell, wad, primer, bullet or shot weight, powder, and powder weight provided in this booklet were obtained in a laboratory, where considerable effort is made to control the load and test conditions. Velocity was measured with a chronograph (electric stopwatch). Pressure was measured either by compressing copper cylinders (C.U.P.), or electronically, by use of a piezoelectric transducer (P.S.I.).

Guns are designed to take a considerable amount of internal pressure, but if this is exceeded, they burst violently. Be alert to signs of excess pressure, such as heavy recoil, flattened primers, or blown primers. Don't make changes in the suggested loads.

Tone variations (shaded areas) used in the reloading tables are for ease of reading and do not represent preferred loads.

The quantity of powder to use is listed in grains, which are a measure of weight, under each powder column.

Every reloader needs a good-quality scale for weighing each powder charge, or for checking the weight of powder thrown by volumetric loaders.

Special Notes Regarding Components Other Than Powder

- A. Shotgun Shells. Manufacturers may sell ammunition under different brand names that are identical for reloading purposes. Following are popular variations. When in doubt, consult the ammunition producer.
 - Federal Game Load Plastic same as Duck, Pheasant, Field, Dove and Top Gun®.
 - Federal Premium (Integral Base Wad)
 - Remington-Peters. Same as Mohawk brand shells.
 - Remington-STS Type. Same as Premier, Nitro 27, GunClub, and Game Loads
 - Winchester AA-Type. Old and new style hulls are interchangeable.
 - Winchester Polyformed Type (Reifenhauser Tube) same as Duck and Pheasant, Dove and Squirrel.

B. Primers

- CCI 109 and CCI 209 are ballistically identical and can be interchanged.
- CCI 209M (Magnum) is "hotter" and cannot be substituted for CCI 109 or 209. Use 209M only as listed.
- Rem. 209 is "hotter" and cannot be substituted for Rem. 97 or Rem. 209P primer.
- Rem. 209P is interchangeable with Rem. 97 primer.
- Federal 209A is "hotter" and cannot be substituted for Federal 209.
- C. Wads. Card wads and fiber wads are used for certain slug and buckshot loads and a few light shotshell loads. Do not interchange wads.
- D. Shot. Use only clean lead shot. DO NOT USE STEEL SHOT IN SHOTSHELL LOADS EXCEPT AS LISTED IN STEEL™ SECTION.
- E. Shot Buffers. Do not add any buffers or fillers of any kind to shotshell loads listed in this Guide.
- F. Cards and Fillers. For revolver, pistol, and rifle cartridge reloading, do not add any cards, kapok, or fillers of any kind to loads listed in this Guide.

▲ WARNING! BLACK POWDER

BLACK POWDER IS ENTIRELY DIFFERENT FROM SMOKELESS POWDER. NEVER SUBSTITUTE ONE FOR THE OTHER. SMOKELESS POWDERS HAVE MUCH MORE ENERGY THAN BLACK POWDER. NEVER ATTEMPT TO USE SMOKELESS POWDER IN BLACK POWDER GUNS OR SALUTING CANNON; THEY MAY BLOW UP AND CAUSE SERIOUS PERSONAL INJURY (INCLUDING DEATH).

POWDER BUSHING CHARTS

A reloading scale is *required* to check the nominal weight of a powder charge.

Powder bushings can vary in the charge weight they drop and could vary as much as several grains under certain conditions.

Powder density, moisture content, and loading technique can cause a variation from the bushing weights listed on the charts. Also, the loading machine vibration affects charge weights. A complete loading cycle should be completed to assure an average powder charge weight.

The information in these tables has been supplied by the reloading machine manufacturers or Alliant Powder and *is not a reloading recommendation*.

Lee Load-A	II Cap	acity	Bushi	ng Ch	art (Un	its sho	wn in g	rains)								
Bushing #	.095	.100	.105	.110	.116	.122	.128	.134	.141	.148	.155	.163	.171	.180	.189	.198
Red Dot	11.0	11.6	12.2	12.8	13.5	14.2	14.8	15.5	16.4	17.2	18.0	18.9	19.8	20.9	21.9	23.0
Amer-Select	11.6	12.2	12.8	13.4	14.2	14.9	15.6	16.4	17.2	18.1	18.9	19.9	20.9	22.0	23.1	24.2
Green Dot	12.3	13.0	13.6	14.3	15.1	15.8	16.6	17.4	18.3	19.2	20.1	21.2	22.2	23.4	24.5	25.7
Blue Dot	18.0	19.0	19.9	20.8	22.0	23.1	24.3	25.4	26.7	28.0	29.4	30.9	32.4	34.1	35.8	37.5
Unique	14.3	15.0	15.8	16.5	17.4	18.3	19.2	20.1	21.2	22.2	23.3	24.5	25.7	27.0	28.4	29.7
Herco	13.9	14.6	15.3	16.1	16.9	17.8	18.7	19.6	20.6	21.6	22.6	23.8	25.0	26.3	27.6	28.9
2400	21.0	22.1	23.2	24.3	25.6	27.0	28.3	29.6	31.2	32.7	34.3	36.0	37.8	39.8	41.8	43.8

Note: Only available with Lee Load-Fast.

Hornady Po	wde	r Bus	hing	Chart	for 3	66 Au	to an	d Ape	ex 91	(Units	shown	in gra	ins)					
Grains	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Red Dot			384	393	405	423	438	453	468	480	489	498	510	519				
Amer-Select							417	423	432	447	456	468	477	483				
Green Dot			363	378	390	405	420	435	447	456	468	480	492	501	513	522	534	_
Unique				342	354	369	381	393	405	414	423	435	444	453	465	474	483	492
Herco				357	369	381	393	405	414	426	438	450	462	471	477	489	498	_
Blue Dot									366	372	381	390	396	408	414	423	435	441
2400		256	266	_	291	300	312	324	330	339								
Clay Dot						432	453	468	489	510								

Hornady Po	owde	Bust	ning C	hart f	or 366	Auto	and A	Apex	91 co	ntinue	ed (Uni	ts shov	wn in g	rains)			
Grains	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Red Dot																	
Amer-Select																	
Green Dot	549	558															
Unique	501	_	510														
Herco	513	552	531	_	549	558	564	573	_	588	594						
Blue Dot	447	459	468	474	483	489	495	501	510	516	522	531	534	543	549	555	561
2400																	

Ponsness/\	Varre	n Pov	vder l	Bushi	ng Ch	art (U	nits sho	own in	grains))							
Bushing #	1A	2A	3A	A	В	C	C1	D	D1	E	E1	E2	F	F1	F2	G	G1
Bullseye										16.2	16.8	17.7	18.7	19.4			
Red Dot											11.6	12.2	12.9	13.4	13.7	14.5	14.7
Amer-Select																	16.4
Green Dot											11.7	12.3	13.1	13.6	13.8	14.7	14.9
Unique									12.6	14.2	14.8	15.6	16.5	17.2	17.5	18.7	19.0
Herco									12.3	13.8	14.4	15.1	16.0	16.6	16.9	18.0	18.3
Blue Dot									16.4	18.4	19.2	20.1	21.3	22.2	22.6	23.9	24.3
2400		12.3	13.2	15.2	16.1	16.8	17.6	18.3	19.0	21.3	22.2	23.3	24.7	25.7	26.1	27.7	28.2

Ponsness/\	Narr	en P	owd	er B	ushii	ng Cl	nart (conti	inue	d (Un	its sh	own i	n grai	ns)							
Bushing #	Н	ı	J	J1	K	L	M	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	AA
Red Dot	15.7	16.5	16.8	17.3	17.6	18.5	19.4	20.7	20.9	21.3	21.9	22.9									
Amer-Select	17.5	18.2	18.8	19.4	19.9	20.6	22.0														
Green Dot	15.9	16.7	17.0	17.5	17.9	18.8	19.6	21.1	21.3	21.8	22.3	23.2	23.6	25.3	26.5						
Unique	20.2	21.2	21.7	22.3	22.7	24.0	25.0	26.8	27.1	27.6											
Herco	19.5	20.5	20.9	21.5	21.9	23.0	24.0	25.7	26.0	26.5	27.1	28.1	28.8	30.7	32.1	33.1	34.9	35.4	37.2		
Blue Dot	25.9	27.2	27.7	28.5	29.1	30.6	31.9	34.2	34.5	35.2	36.0	37.5	38.1	40.7	42.5	43.8	46.5	47.2	49.5	55.7	
2400	30.0	31.5	32.2	33.1	33.7	35.5	37.1	39.8	40.2	41.1	42.0	43.8	44.5	47.5	49.8						

MEC Powd	er E	Bush	ing	Cha	rt (U	nits S	Show	n In	Grain	ıs)														
Bushing #	9	10	11	12	12a	13	13a	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Clay Dot																						15.4	16.0	16.5
Red Dot		6.3	6.7	7.1	7.5	7.9	8.3	8.7	9.2	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.7	14.2	14.9	15.7	16.4	17.1	17.8
e3		6.6	7.0	7.2	7.5	8.0	8.3	8.9	9.2	9.9	10.5	11.0	11.7	12.3	12.8	13.4	13.8	14.2	14.8	15.3	15.9	16.4	16.9	17.4
Amer-Select		6.9	7.3	7.7	8.2	8.6	9.1	9.6	10.1	10.6	11.1	11.7	12.2	12.8	13.3	13.9	14.5	15.1	15.7	16.4	17.0	17.7	18.3	19.0
Green Dot		6.7	7.2	7.6	8.0	8.4	8.9	9.3	9.8	10.3	10.8	11.3	11.8	12.4	12.9	13.5	14.0	14.6	15.2	15.8	16.4	17.0	17.7	18.3
20/28						11.3	11.9	12.5	13.0	13.8	14.5	15.1	15.7	16.3	17.1	18.0	18.8							
Unique		7.5	7.9	8.4	8.9	9.4	9.9	10.4	10.9	11.4	12.0	12.6	13.1	13.7	14.5	15.1	15.8	16.4	17.1	17.7	18.4	19.1	19.8	20.5
Herco		7.9	8.3	8.8	9.3	9.8	10.4	10.9	11.4	12.0	12.6	13.2	13.8	14.4	15.0	15.7	16.3	17.0	17.7	18.4	19.1	19.8	20.6	21.3
Blue Dot		10.8	11.3	11.9	12.5	13.1	13.7	14.4	15.0	15.7	16.3	17.0	17.7	18.4	19.2	20.1	21.0	21.9	22.8	23.7	24.6	25.5	26.4	27.3
2400		11.8	12.5	13.3	14.0	14.8	15.6	16.4	17.2	18.1	18.9	19.8	20.7	21.7	22.6	23.6	24.6	25.6	26.6	27.7	28.8	29.9	31	32.1
410	11.1	11.7	12.1	13.0	13.6	14.5	15.1	15.7	16.6	17.4	18.4	19.2	20.2	21.1	22.1	23.1	24.4	25.6	26.1	26.9	28.0	29.5	30.3	31.4

MEC Powd	MEC Powder Bushing Chart continued (Units Shown In Grains)																							
Bushing #	31	32	33	34	35	36	37	38	38a	39	39a	40	40a	41	41a	42	42a	43	43a	44	44a	45	45a	46
Clay Dot	16.9	17.4	18.1	18.8																				
Red Dot	18.5	19.2	19.9	20.6	21.3	21.9	22.7	23.3	24.1	24.7	25.2	25.9	26.6	27.3	27.9	28.4	29.3	29.9	30.8	31.5	32.1	32.7	33.4	34.1
e3	17.9	18.5	19.5	20.5	21.0	21.8	22.3	22.8	23.2	23.8	24.5	25.4	26.0	26.6	27.0	27.5	28.8	30.0	31.1	32.2	33.1	33.9	34.8	35.9
Amer-Select	19.7	20.4	21.1	21.8	22.6	23.3	24.1	24.9	25.7	26.5	27.3	28.1	28.9	29.8	30.7	31.5	32.4	33.3	34.2	35.2	36.4	37.0	38.0	39.0
Green Dot	19.0	19.6	20.3	21.0	21.7	22.4	23.2	23.9	24.7	25.4	26.2	27.0	27.8	28.6	29.4	30.3	31.1	32.0	32.8	33.7	34.6	35.3	36.4	37.4
Unique	21.1	21.7	22.5	23.2	24.0	24.8	25.6	26.5	27.3	28.2	29.0	29.9	30.8	31.7	32.6	33.5	34.5	35.4	36.4	37.4	38.4	39.4	40.4	41.4
Herco	22.1	22.9	23.7	24.5	25.3	26.2	27.0	27.9	28.8	29.7	30.6	31.5	32.4	33.4	34.3	35.3	36.3	37.3	38.3	39.5	40.4	41.4	42.5	43.6
Blue Dot	28.2	29.1	30.5	31.6	32.7	33.8	35.0	36.1	37.3	38.5	39.7	40.9	42.2	43.4	44.7	46.0	47.4	48.7	50.1	51.5	52.9	54.3	55.7	57.2
2400	33.3	34.5	35.7	36.9	38.1	39.4	40.7	42.0	43.3	44.6	46.0	47.4	48.8	50.2	51.6	53.1	54.6	56.1	57.6	59.2	60.7	62.3	63.9	65.6
410	32.4	33.6	34.7	35.9	37.0	38.1	39.3	40.6	42.0	43.3	45.0	46.7	48.0	49.2	50.4	51.7	53.0	54.8	56.3	57.4	58.0	59.2	60.4	62.0

17

SHOTSHELL RELOADING DATA

NON-TOXIC SHOTSHELL RELOADING

warning! Reloading steel shotshells requires strict adherence to Alliant published reloading specifications. The reloading specifications provided in this publication were derived through the use of controlled laboratory conditions. While reloading steel shotshells, the reloader must adhere precisely to all the components without exception, set forth in the load data and specifications. Alliant recommends that both powder charge and shot charge be individually weighed to insure compliance to load data. Steel shotshells should only be used in well maintained firearms that are designed to shoot steel shot loads. Alliant recommends that the commercially available shotshell sealant be applied to both the primer and crimp areas to prevent moisture penetration.

REGARDING THE USE OF FILLERS/SPACERS:

Spacer or filler wads serve the purpose of raising the shot column to a level that will allow for the forming of a good crimp. If a filler is required for a particular load, the thickness and location of that filler will be indicated in the "spacer" column. As an example, it might be described in the following manner: 1/8 U, 1/8 O, which means that the two 1/8 inch thick spacers are required; one should be placed in the bottom of the wad cup directly under the shot, and a second one over the shot. Spacers can be stacked if necessary, and the number needed may vary depending on the size of the shot being used. If your crimp dishes in a bit, or bulges, you can add or reduce the number of spacers to improve the crimp. Only slight adjustments, if any, will be necessary for this reason. We do not recommend the use of shot buffer in any of our loads.

NON-TOXIC SHOTSHELL RELOADING DATA										
STEEL® PO	WDER FOR RELOADING STEE	EL SHOT O	NLY 10	-GAUGE,	3 1/2 INCH	SHELLS				
Shell Type	Wad	Primer	Shot	Velocity	Pressure	Powder	Spacers			
			(oz)	(fps)	(psi)	(grs)				
Rem (yellow base wad)	Precision Reloading TUPRW105	Fed 209A	1 1/4	1590	9800	50.0	1/2 U			
Rem (yellow base wad)	Ballistics Products #3221000	Fed 209A	1 5/8	1310	10100	37.0	none			
Rem Plastic SP	Precision Reloading TUPRW105	Fed 209A	1 3/8	1475	10000	43.5	3/8 U			
Rem Plastic SP	Ballistics Products #3221000	Fed 209A	1 3/8	1535	10100	46.0	3/8 U			
Rem Plastic SP	Rel Spec "SAM 1 10 ga 3 1/2"	Fed 209A	1 3/8	1555	10300	48.0	1/4 U			
Rem Plastic SP	Precision Reloading TUPRW105	Fed 209A	1 1/2	1345	10300	37.5	1/4 U			
Rem Plastic SP	Ballistics Products #3221000	Fed 209A	1 1/2	1385	10100	39.0	1/4 U			
Rem Plastic SP	Rel Spec "SAM 1 10 ga 3 1/2"	Fed 209A	1 1/2	1470	10100	45.0	1/8 U			
Win Polyformed	Rel Spec "SAM 1 10 ga 3 1/2"	Fed 209A	1 3/8	1538	10200	45.5	1/4 U			
Win Polyformed	Rel Spec "SAM 1 10 ga 3 1/2"	Fed 209A	1 1/2	1415	9900	41.0	1/8 U			
STEEL® PO	WDER FOR RELOADING STEE	L SHOT C	NLY 12	-GAUGE,	2 3/4 INCH	I SHELLS				
Fed Gold Medal	Rel Spec "SAM 1 12 ga 2 3/4"	Fed 209A	7/8	1700	7800	42.0	1/8 U			
Fed Gold Medal	Ballistic Products #3221275	Fed 209A	7/8	1765	9000	45.0	none			
Fed Gold Medal	Ballistic Products #3221275	Fed 209A	1	1480	9500	33.0	1/8 U			
Fed Gold Medal	Precision Reloading TUPRW12	Fed 209A	1	1500	8000	37.0	1/8 U			
Fed Gold Medal	Rel Spec "SAM 1 12 ga 2 3/4"	Fed 209A	1	1520	9200	36.0	none			
Fed Gold Medal	Rel Spec "SAM 1 12 ga 2 3/4"	Fed 209A	1 1/8	1380	9000	32.0	none			
Fed Gold Medal	Precision Reloading TUPRW12	Fed 209A	1 1/8	1425	9600	32.0	none			
Rem Nitro Mag	Precision Reloading TUPRW12	Fed 209A	1	1520	10800	35.5	none			
Rem Nitro Mag	Rel Spec "SAM 1 12 ga 2 3/4"	Fed 209A	1	1546	10300	35.5	none			
Rem Nitro Mag	Precision Reloading TUPRW12	Fed 209A	1 1/8	1361	10400	29.5	none			
Rem Nitro Mag	Rel Spec "SAM 1 12 ga 2 3/4"	Fed 209A	1 1/8	1428	10400	32.5	none			
Fed 0.090 Intergral BW	Precision Reloading TUPRW123	Fed 209A	1	1660	9400	44.0	1/4 U			

Non-Toxic Shotshell Reloading Data continued

STEEL® P	OWDER FOR RELOADING ST	EEL SHOT	ONLY	12-GAUGI			
Shell Type	Wad	Primer	Shot	Velocity	Pressure	Powder	Spacers
			(oz)	(fps)	(psi)	(grs)	
Fed 0.090 Intergral BW	Ballistic Products #3221230	Fed 209A	1	1690	10500	45.0	3 /8 U
Fed 0.090 Intergral BW	Reloading Specialties 12 ga 3"	Fed 209A	1	1720	8900	47.0	3 /8 U
Fed 0.090 Intergral BW	Ballistic Products #3221230	Fed 209A	1 1/8	1510	10400	37.0	1/4 U
Fed 0.090 Intergral BW	Precision Reloading TUPRW123	Fed 209A	1 1/8	1515	10900	38.0	1/4 U
Fed 0.090 Intergral BW	Reloading Specialties 12 ga 3"	Fed 209A	1 1/8	1580	10700	40.5	1/8 U
Fed 0.090 Intergral BW	Precision Reloading TUPRW123	Fed 209A	1 1/4	1355	10500	33.0	1/8 U
Fed 0.090 Intergral BW	Ballistic Products #3221230	Fed 209A	1 1/4	1370	10500	33.0	1/8 U
Fed 0.090 Intergral BW	Reloading Specialties 12 ga 3"	Fed 209A	1 1/4	1435	10800	37.0	1/8 U
Fed Game Load 7/16 BW	Ballistic Products #3221230	Fed 209A	1	1665	8900	45.0	1/4 U
Fed Game Load 7/16 BW	Reloading Specialties 12 ga 3"	Fed 209A	1	1700	8200	48.0	1/4 U
Fed Game Load 7/16 BW	Ballistic Products #3221230	Fed 209A	1 1/8	1550	10600	39.5	1/4 U
Fed Game Load 7/16 BW	Reloading Specialties 12 ga 3"	Fed 209A	1 1/8	1560	10500	40.5	1/8 U
Fed Game Load 7/16 BW	Ballistic Products #3221230	Fed 209A	1 1/4	1390	10900	33.0	1/4 U
Fed Game Load 7/16 BW	Reloading Specialties 12 ga 3"	Fed 209A	1 1/4	1430	10500	36.0	none
Rem Nitro Steel	Ballistic Products #3221230	Fed 209A	1 1/8	1440	10800	33.5	1/4 U
Rem Nitro Steel	Precision Reloading TUPRW123	Fed 209A	1 1/8	1457	10700	35.0	1/4 U
Rem Nitro Steel	Reloading Specialties 12 ga 3"	Fed 209A	1 1/8	1479	10600	33.0	1/4 U
Rem Nitro Steel	Precision Reloading TUPRW123	Fed 209A	1 1/4	1392	10700	32.0	1/8 U
STEEL® PO	WDER FOR RELOADING STEE	EL SHOT O	NLY 1	2-GAUGE,	3 1/2 INCH	SHELLS	
Fed Intergral BW	Reloading Specialties "Sam 1"	Fed 209A	1 1/4	1510	10400	45.0	3/8 U
Fed Intergral BW	Ballistic Products mm 12312	Fed 209A	1 1/4	1560	10900	45.0	1/8 U
Fed Intergral BW	Precision Reloading TUPRW1235	Fed 209A	1 1/4	1565	10700	45.0	1/2 U
Fed Intergral BW	Precision Reloading TUPRW1235	Fed 209A	1 3/8	1470	12500	40.0	3/8 U
Fed Intergral BW	Ballistic Products mm 12312	Fed 209A	1 3/8	1485	12600	41.5	3/8 U
Fed Intergral BW	Precision Reloading TUPRW1235	Fed 209A	1 1/2	1360	12600	36.0	3/8 U
Fed Intergral BW	Ballistic Products mm 12312	Fed 209A	1 1/2	1385	12800	37.0	1/4 U
Fed Intergral BW	Reloading Specialties "Sam 1"	Fed 209A	1 1/2	1390	13300	39.0	1/4 U
Rem Plastic SP	Reloading Specialties "Sam 1"	Fed 209A	1 1/4	1595	13100	45.0	3/8 U
Rem Plastic SP	Ballistic Products mm 12312	Fed 209A	1 1/4	1615	13300	45.0	3/8 U
Rem Plastic SP	Ballistic Products mm 12312	Fed 209A	1 3/8	1430	12800	37.0	1/4 U
Rem Plastic SP	Reloading Specialties "Sam 1"	Fed 209A	1 3/8	1430	12800	38.5	3/8 U
Rem Plastic SP	Ballistic Products mm 12312	Fed 209A	1 1/2	1305	13000	33.0	1/4 U
Rem Plastic SP	Reloading Specialties "Sam 1"	Fed 209A	1 1/2	1330	13000	35.0	1/4 U

BLUE DOT® PO\	WDER FOR RELOADING BISI	OT ONLY	12-GAUGE, 2 3/4 INCH SHELLS				
Shell Type	Wad	Primer	Shot	Velocity	Pressure	Powder	Spacers
			(oz)	(fps)	(psi)	(grs)	
Rem Premier STS	CB 1138-12	Fed 209A	1 1/4	1421	10100	39.5	None
BLUE DOT® P	OWDER FOR RELOADING BI	SMUTH S	HOT ONLY	/ 12-GA	UGE, 3 IN	CH SHELI	.S
Fed 0.090 Intergral BW	Rem SP 12	Fed 209A	1 3/8	1507	10700	46.0	1/8 0
Fed 0.090 Intergral BW	Fed 12S4	Fed 209A	1 1/2	1310	10100	38.0	None
Fed 0.090 Intergral BW	Rem RP 12	Fed 209A	1 1/2	1359	10800	40.0	1/4 0
Fed 7/16 Paper BW	Rem SP 12	Fed 209A	1 3/8	1464	10700	43.5	1/4 0
Fed 7/16 Paper BW	Rem RP 12	Fed 209A	1 1/2	1347	10400	39.0	1/8 0
Rem SPELV Yellow BW	Rem RP 12	Fed 209A	1 3/8	1473	10700	44.0	1/8 0
Rem SPELV Yellow BW	Rem SP 12	Fed 209A	1 3/8	1564	10700	50.0	None
Rem SPELV Yellow BW	Rem RP 12	Fed 209A	1 1/2	1441	10700	45.0	None
STEEL® POWE	ER FOR RELOADING HEVI S	HOT SHO	T ONLY	12-GAUG	E, 2 3/4 IN	CH SHEL	LS
Fed 7/16 Paper BW	Prec Rel TUPRWIZ (white)	Fed 209A	1 3/8	1320	10600	33.5	1/8 O, 1/4 U
Rem SPELV Yellow BW	Prec Rel TUPRWIZ (white)	Fed 209A	1 1/4	1367	10900	32.2	1/4 O, 1/4 U
Rem SPELV Yellow BW	Prec Rel TUPRWIZ (white)	Fed 209A	1 3/8	1291	10400	31.3	1/8 O, 1/4 U
STEEL® POW	DER FOR RELOADING HEVI	SHOT SH	OT ONLY	12-GAU	GE, 3 INC	H SHELLS	
Fed 0.090 Intergral BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 3/8	1372	10300	40.0	3/8 U
Fed 0.090 Intergral BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 1/2	1294	10900	34.0	3/8 U
Fed 7/16 Paper BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 3/8	1371	10600	36.5	3/8 U
Fed 7/16 Paper BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 1/2	1274	10500	33.0	1/4 U
Rem SPELV Yellow BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 1/4	1462	10300	40.0	3/8 U
Rem SPELV Yellow BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 3/8	1385	10900	37.5	3/8 U
Rem SPELV Yellow BW	Prec Rel TUPR23 (Orange)	Fed 209A	1 1/2	1259	10900	33.0	1/4 U

	INTERNATIONAL LOADS										
	24 GRAM INTERNATIONAL TARGET LOADS										
12 Gauge, 2 3/4 inch Federal® Gold Medal® Plastic											
Shot Weight Velocity Wad Primer Red Dot® American Select®											
(gram)	(fps)			(grs)	(psi)	(grs)	(psi)				
24	1345	CB 1100-12	Fed 209A	20.0	8700	21.0	8000				
24	1345	Fed 12SO	Fed 209A	20.0	8900	20.5	7900				
24	1345	Purple PC	Fed 209A	19.5	8700						
24	1345	Rem TGT 12 & DRRT12	Fed 209A	20.5	8900	21.0	8100				
24	1345	WAA12L (Gray)	Fed 209A	20.0	9000	21.5	8100				

24 Gram International Target Load Data continued

		12 Gauge, 2	3/4 inch Fioco	hi Plastic			
Shot Weight	Velocity	Wad	Primer	Red	Dot®	America	n Select®
(gram)	(fps)			(grs)	(psi)	(grs)	(psi)
24	1345	Fed 12S0	Fio 616	20.5	8700	22.0	7800
24	1345	Purple PC	Fio 616			22.5	6900
24	1345	Rem TGT 12 & DRRT12	Fio 616	20.5	8200	22.0	7600
24	1345	WAA12L (Gray)	Fio 616	21.0	8500	22.0	7500
		12 Gauge, 2 3/4 inch	Remington Pr	emier, STS	Plastic		
24	1345	CB 1100-12	Rem 209P	20.5	8800	20.5	8700
24	1345	Fed 12SO	Rem 209P	20.0	9800	20.5	9600
24	1345	Purple PC	Rem 209P	20.5	8300	21.0	8100
24	1345	Rem TGT 12 & DRRT12	Rem 209P	20.5	9200	20.5	8500
24	1345	WAA12L (Gray)	Rem 209P	20.5	9800	20.5	8700
		12 Gauge, 2 3/4	4 inch Winche	ester Plastic	;		
24	1345	CB 1100-12	Win 209	20.0	9600	20.5	8700
24	1345	Fed 12SO	Win 209	20.0	10100	20.5	9100
24	1345	Purple PC	Win 209	20.0	9000	21.0	8100
24	1345	Rem TGT 12 & DRRT12	Win 209	20.0	9600	20.5	8600
24	1345	WAA12L (Gray)	Win 209	20.0	10200	20.5	9700
		28 GRAM INTER	NATIONAL TA	ARGET LOAI	os		
		12 Gauge, 2 3/4 inch	ı Federal® Gol	ld Medal® P	lastic		
Shot Weight	Velocity	Wad	Primer	Red	Dot [®]	Greer	Dot [®]
(gram)	(fps)			(grs)	(psi)	(grs)	(psi)
28	1345	Fed 12S0	Fed 209A	23.0	9900	24.5	9100
28	1345	Purple PC	Fed 209A	23.0	8800	25.0	8200
28	1345	Rem Figure 8 & DRRF8	Fed 209A	22.5	9500	25.0	8400
28	1345	WAA12SL	Fed 209A	22.5	9600	24.5	8400
		12 Gauge, 2	3/4 inch Fioco	hi Plastic			
28	1345	Fed 12S3 & DRF3	Fio 616	22.0	9600	24.0	8800
28	1345	Purple PC	Fio 616	22.5	9500	24.0	8800
28	1345	Rem Figure 8 & DRRF8	Fio 616	21.5	9700	24.0	8800
28	1345	WAA12SL	Fio 616	21.5	10400	24.0	8800
		12 Gauge, 2 3/4 ii	nch Remingto	n Premier, S	STS		
28	1345	Fed 12S3 & DRF3	Rem 209P			23.0	10300
28	1345	Purple PC	Rem 209P	21.5	10600	24.0	9900
28	1345	Rem Figure 8 & DRRF8	Rem 209P	21.5	10600	23.0	9700
28	1345	WAA12SL	Rem 209P			23.0	10100

28 Gram International Target Load Data continued

	12 Gauge, 2 3/4 inch Winchester Plastic											
Shot Weight	Velocity	Wad	Primer	Red	Dot®	Green Dot®						
(gram)	(fps)			(grs)	(psi)	(grs)	(psi)					
28	1345	Purple PC	Win 209			23.0	9500					
28	1345	Rem Figure 8 & DRRF8	Win 209			22.5	10600					

	10 GAUGE RELOADING DATA										
		10 Gauge	e, 3 1/2 inch	Federal® PI	astic with Paper	Base Wad					
Shot	Powder	Primer	Wad	Spacers	Charge Weight (g	rains) / Velocity (fps	s) & Pressure (psi)				
(oz)					(grains)	(fps)	(psi)				
1 1/4	Green Dot	CCI 209M	Rem SP 10	(6) 0.135	29.5	1265	8300				
1 1/4	Green Dot	Win 209	Rem SP 10	(6) 0.135	29.0	1265	8800				
1 5/8	Herco	CCI 209M	Rem SP 10	(4) 0.135	36.0	1285	10300				
1 5/8	Blue Dot	CCI 209M	Rem SP 10	(4) 0.135	45.0	1285	8000				
1 5/8	Blue Dot	Win 209	Rem SP 10	(4) 0.135	45.5	1285	8300				
1 7/8	Blue Dot	CCI 209M	Rem SP 10	(3) 0.135	45.5	1270	9900				
1 7/8	Blue Dot	Win 209	Rem SP 10	(3) 0.135	45.5	1270	10200				
2	Blue Dot	CCI 209M	Rem SP 10	(2) 0.135	43.5	1210	9200				
2	Blue Dot	Win 209	Rem SP 10	(2) 0.135	44.0	1210	9400				
2 1/4	Blue Dot	CCI 209M	Rem SP 10	(1) 0.135	42.0	1165	9800				
2 1/4	Blue Dot	Win 209	Rem SP 10	(1) 0.135	42.5	1165	10200				
			10 Gaug	e, 3 1/2 inct	Remington SP						
1 1/4	Green Dot	CCI 209M	Rem SP 10	(6) 0.135	28.5	1265	8800				
1 1/4	Green Dot	Win 209	Rem SP 10	(6) 0.135	29.0	1265	8800				
1 1/4	Unique	CCI 209M	Rem SP 10	(6) 0.135	31.0	1265	7500				
1 1/4	Unique	Win 209	Rem SP 10	(6) 0.135	31.0	1265	7600				
1 5/8	Blue Dot	CCI 209M	Rem SP 10	(4) 0.135	43.5	1285	8500				
1 5/8	Blue Dot	Win 209	Rem SP 10	(4) 0.135	44.0	1285	8500				
1 7/8	Blue Dot	CCI 209M	Rem SP 10	(3) 0.135	44.0	1270	9800				
1 7/8	Blue Dot	Win 209	Rem SP 10	(3) 0.135	44.5	1270	9100				
2	Blue Dot	CCI 209M	Rem SP 10	(2) 0.135	42.0	1210	10400				
2	Blue Dot	Win 209	Rem SP 10	(2) 0.135	42.5	1210	10100				
2 1/4	Blue Dot	CCI 209M	Rem SP 10	none	40.5	1165	10400				
2 1/4	Blue Dot	Win 209	Rem SP 10	none	41.0	1165	10500				
	1	0 G auge, 3 1	/2 inch Win	chester Pol	yformed with Pla	stic Base Wad					
1 1/4	Green Dot	CCI 209M	Rem SP 10	(5) 0.135	28.0	1265	8500				
1 1/4	Green Dot	Win 209	Rem SP 10	(5) 0.135	28.5	1265	8600				
1 5/8	Herco	CCI 209M	Rem SP 10	(3) 0.135	35.5	1285	10400				
1 5/8	Blue Dot	CCI 209M	Rem SP 10	(3) 0.135	44.5	1285	8700				

10 Gauge Reloading Data continued

	10 Gauge, 3 1/2 inch Win Polyformed with Plastic Base Wad continued											
Shot	Powder	Primer	Wad	Spacers	Charge Weight (gr	ains) / Velocity (fp:	s) & Pressure (psi)					
(oz)					(grains)	(fps)	(psi)					
1 5/8	Blue Dot	Win 209	Rem SP 10	(3) 0.135	45.0	1285	8800					
1 7/8	Blue Dot	CCI 209M	Rem SP 10	(2) 0.135	45.0	1270	9800					
1 7/8	Blue Dot	Win 209	Rem SP 10	(2) 0.135	45.5	1270	10200					
2	Blue Dot	CCI 209M	Rem SP 10	(1) 0.135	43.0	1210	9400					
2	Blue Dot	Win 209	Rem SP 10	(1) 0.135	43.5	1210	9500					
2 1/4	Blue Dot	CCI 209M	Rem SP 10	none	41.5	1165	10500					
2 1/4	Blue Dot	Win 209	Rem SP 10	none	42.0	1165	10500					

	12 GAUGE RELOADING DATA										
			12 Gauge,	2 3/4 inch Ched	dite Plastic						
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)				
(oz)				1145 fps	1200 fps	1255 fps	1300 fps				
1	Red Dot	Cheddite	12S0		19.0 grs 7800 psi	20.0 grs 8700 psi	21.0 grs 9300 psi				
1	American Select	Cheddite	1280		20.0 grs 6200 psi	21.5 grs 7000 psi	22.5 grs 7600 psi				
1	Green Dot	Cheddite	12S0		21.5 grs 6900 psi	23.0 grs 7800 psi	24.0 grs 8300 psi				
1 1/8	Red Dot	Cheddite	12S3 & DRF3	18.0 grs 9000 psi	19.5 grs 9600 psi						
1 1/8	Red Dot	Cheddite	RXP 12	18.0 grs 8500 psi	19.5 grs 8800 psi						
1 1/8	American Select	Cheddite	12S3 & DRF3	19.0 grs 7600 psi	20.5 grs 8800 psi						
1 1/8	American Select	Cheddite	RXP 12	19.5 grs 7200 psi	20.5 grs 7600 psi						
1 1/8	Green Dot	Cheddite	12S3 & DRF3	20.0 grs 7500 psi	21.5 grs 8300 psi						
1 1/8	Green Dot	Cheddite	RXP 12	20.5 grs 7100 psi	22.0 grs 7800 psi						
12 0	GAUGE 2 3,	/4 INCH RI	EMINGTON PLAST	IC SHELLS (STS	, NITRO 27, PRI	EMIER RXP ANI	O GUN CLUB)				
			12 Gauge 7,	/8 and 1 Ounce	Target Loads						
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)				
(oz)				1150 fps	1200 fps	1250 fps	1310 fps				
7/8	Red Dot	Rem 209P	CB 4100-12B		17.5 grs 7100 psi	18.0 grs 7400 psi	19.0 grs 8100 psi				
7/8	Red Dot	Rem 209P	Purple PC		17.5 grs 6800 psi	18.5 grs 6900 psi	20.0 grs 7500 psi				
7/8	Red Dot	Rem 209P	TGT 12 & DRRT12		17.0 grs 6800 psi	18.5 grs 7100 psi	20.5 grs 8200 psi				
7/8	Red Dot	Rem 209P	WAA12L & DR XXL (Pink)		16.5 grs 8000 psi	17.5 grs 8700 psi	18.5 grs 9100 psi				
7/8	Red Dot	Rem 209P	WAA12SL&DRXL-1 & Jammer XL-1		17.0 grs 7000 psi	18.5 grs 7800 psi	20.5 grs 8000 psi				
7/8	e3	Rem 209P	WAA12L& DR XXL(Pink)		16.0 grs 7265 psi	17.0 grs 7655 psi	18.0 grs 8525 psi				
7/8	e3	Rem 209P	CB 4100-12B		16.2 grs 6195 psi	17.2 grs 7045 psi	18.2 grs 7580 psi				

12 Gauge 2 3/4 inch Remington Plastic Shells (STS, Nitro 27, Premier RXP and Gun Club) continued

	12 Gauge 7/8 and 1 Ounce Target Loads continued										
Shot	Powder	Primer	Wad	Charge \	Veight (grains) / Ve	elocity (fps) & Pre	ssure (psi)				
(oz)				1150 fps	1200 fps	1250 fps	1310 fps				
7/8	e3	Rem 209P	TGT 12 & DRRT12			17.0 grs 7820 psi	17.8 grs 8585 psi				
7/8	Clay Dot	Rem 209P	CB 4100-12B		17.5 grs 5400 psi	18.5 grs 5760 psi	19.0 grs 7020 psi				
7/8	Clay Dot	Rem 209P	TGT 12 & DRRT12		17.0 grs 6490 psi	17.5 grs 6910 psi	18.5 grs 7770 psi				
7/8	Clay Dot	Rem 209P	CB 0178		17.5 grs 5916 psi	18.0 grs 6060 psi	18.5 grs 6544 psi				
7/8	American Select	Rem 209P	CB 4100-12B		18.9 grs 5200 psi	19.6 grs 5900 psi	20.5 grs 6700 psi				
7/8	American Select	Rem 209P	TGT 12 & DRRT12				20.5 grs 7000 psi				
7/8	American Select	Rem 209P	WAA12L & DR XXL(Pink)		18.0 grs 5.800 psi	19.0 grs 6800 psi	20.0 grs 7200 psi				
7/8	American Select	Rem 209P	WAA12SL & DRXL-1 & Jammer XL-1				20.5 grs 7900 psi				
7/8	American Select	Rem 209P	CB 1100-12				20.5 grs 6900 psi				
7/8	Green Dot	Rem 209P	TGT 12 & DRRT12				22.0 grs 7100 psi				
7/8	Promo	Rem 209P	CB 4100-12B		17.5 grs 7100 psi	18.0 grs 7400 psi	19.0 grs 8100 psi				
7/8	Promo	Rem 209P	Purple PC		17.5 grs 6800 psi	18.5 grs 6900 psi	20.0 grs 7500 psi				
7/8	Promo	Rem 209P	TGT 12 & DRRT12		17.0 grs 6800 psi	18.5 grs 7100 psi	20.5 grs 8200 psi				
7/8	Promo	Rem 209P	WAA12L & DR XXL(Pink)		16.5 grs 8000 psi	17.5 grs 8700 psi	18.5 grs 9100 psi				
7/8	Promo	Rem 209P	WAA12SL&DRXL-1 & Jammer XL-1		17.0 grs 7000 psi	18.5 grs 7800 psi	20.5 grs 8000 psi				
1	Clay Dot	Rem 209P	CB 4100-12B		17.5 grs 6800 psi	18.5 grs 7940 psi	19.5 grs 9050 psi				
1	Clay Dot	Rem 209P	TGT 12 & DRRT12		17.5 grs 7930 psi	18.5 grs 9080 psi	19.5 grs 10070 psi				
1	Clay Dot	Fed 209A	WAA12SL		16.5 grs 8240 psi	17.7 grs 8800 psi					
1	Clay Dot	Win 209	WAA12SL		17.0 grs 7860 psi	18.4 grs 8980 psi					
1	Clay Dot	Win 209	TGT 12 & DRRT12		17.6 grs 7590 psi	18.8 grs 8890 psi					
1	e3	Rem 209P	WAA12L & DR XXL (Pink)	15.5 grs 8950 p	si 16.5 grs 10015 psi	17.5 grs 10530 psi					
1	e3	Rem 209P	CB 1100-12	16.0 grs 7730 p	si 17.0 grs 8730 psi	18.0 grs 9540 psi	19.0 grs 10040 psi				
1	e3	Rem 209P	TGT 12 & DRRT12	16.0 grs 7970 p	si 16.9 grs 8550 psi	18.0 grs 9710 psi	19.0 grs 10850 psi				
1	e3	Rem 209P	Green Duster		17.0 grs 9455 psi	17.5 grs 10970 psi					
1	Red Dot	Rem 209P	CB 1100-12	16.5 grs 7400 p	si 17.8 grs 8000 psi	18.7 grs 8800 psi	19.7 grs 9400 psi				
1	Red Dot	Rem 209P	TGT 12 & DRRT12	17.0 grs 8300 p	si 18.0 grs 8700 psi	19.0 grs 9500 psi	21.0 grs 10700 psi				
1	Red Dot	Rem 209P	WAA12L & DR XXL (Pink)	16.5 grs 8100 p	si 18.0 grs 9600 psi						
1	Red Dot	Rem 209P	WAA12SL & DRXL-1 & Jammer XL-1			19.5 grs 10100 psi	20.5 grs 10400 psi				
1	Red Dot	Rem 209P	Purple PC		18.5 grs 8300 psi	19.5 grs 8900 psi	20.5 grs 9100 psi				
1	Red Dot	Rem 209P	Green Duster		17.5 grs 10000 psi	18.5 grs 10900 psi					

12 Gauge 2 3/4 inch Remington Plastic Shells (STS, Nitro 27, Premier RXP and Gun Club) continued

	12 Gauge 7/8 and 1 Ounce Target Loads continued									
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	essure (psi)			
(oz)				1150 fps	1200 fps	1250 fps	1310 fps			
1	Red Dot	Rem 209P	Rem R12L				20.5 grs 9900 psi			
1	Red Dot	Rem 209P	Figure 8 & DRRF8				21.5 grs 9100 psi			
1	Red Dot	CCI 209M	Rem R12L				20.0 grs 10300 psi			
1	Red Dot	Win 209	Rem R12L				20.0 grs 10100 psi			
1	American Select	Rem 209P	TGT 12 & DRRT12	17.0 grs 6900 psi	19.0 grs 7000 psi	20.5 grs 8000 psi	22.5 grs 8700 psi			
1	American Select	Rem 209P	WAA12L & DR XXL (Pink)	17.0 grs 7500 psi						
1	American Select	Rem 209P	CB 1100-12		19.5 grs 7500 psi	20.5 grs 8000 psi	22.5 grs 8500 psi			
1	American Select	Rem 209P	Green Duster		19.0 grs 7700 psi	20.0 grs 8400 psi				
1	American Select	Rem 209P	WAA12SL & DRXL-1 & Jammer XL-1		19.0 grs 7600 psi	20.5 grs 8700 psi	21.5 grs 9200 psi			
1	Green Dot	Rem 209P	CB 1100-12	18.5 grs 7000 psi	19.2 grs 7500 psi	21.0 grs 8300 psi	22.0 grs 8500 psi			
1	Green Dot	Rem 209P	TGT 12 & DRRT12	18.0 grs 6600 psi	20.0 grs 8200 psi	21.0 grs 8500 psi	22.5 grs 8900 psi			
1	Green Dot	Rem 209P	WAA12L & DR XXL (Pink)	18.0 grs 6300 psi						
1	Green Dot	Rem 209P	Green Duster		19.5 grs 7500 psi	22.0 grs 8800 psi				
1	Green Dot	Rem 209P	Purple PC		20.5 grs 7000 psi	21.5 grs 8500 psi	22.5 grs 8900 psi			
1	Green Dot	Rem 209P	WAA12SL & DRXL-1 & Jammer XL-1		19.5 grs 8600 psi	21.5 grs 8900 psi	22.5 grs 9000 psi			
1	Green Dot	CCI 209M	Rem R12L				22.0 grs 9100 psi			
1	Green Dot	Win 209	Rem R12L				22.0 grs 8700 psi			
1	Promo	Rem 209P	CB 1100-12	16.5 grs 7400 psi	17.8 grs 8000 psi	18.7 grs 8800 psi	19.7 grs 9400 psi			
1	Promo	Rem 209P	TGT 12 & DRRT12	17.0 grs 8300 psi	18.0 grs 8700 psi	19.0 grs 9500 psi	21.0 grs 10700 psi			
1	Promo	Rem 209P	WAA12L & DR XXL (Pink)	16.5 grs 8100 psi	18.0 grs 9600 psi					
1	Promo	Rem 209P	WAA12SL & DRXL-1 & Jammer XL-1			19.5 grs 10100 psi	20.5 grs 10400 psi			
1	Promo	Rem 209P	Purple PC		18.5 grs 8300 psi	19.5 grs 8900 psi	20.5 grs 9100 psi			
1	Promo	Rem 209P	Green Duster		17.5 grs 10000 psi	18.5 grs 10900 psi				
1	Promo	Rem 209P	Rem R12L				20.5 grs 9900 psi			
1	Promo	Rem 209P	Figure 8 & DRRF8				21.5 grs 9100 psi			
1	Promo	CCI 209M	Rem R12L				20.0 grs 10300 psi			
1	Promo	Win 209	Rem R12L				20.0 grs 10100 psi			

24 continued 25

			12 Gauge	1 1/8 Ounce Ta	rget Loads		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Clay Dot	Rem 209P	WAA12 & DRA12 & DRXL 1 1/8		17.7 grs 10230 psi	18.8 grs 10870 psi	
1 1/8	Clay Dot	Rem 209P	Figure 8 & DRRF8		17.5 grs 10270 psi		
1 1/8	Clay Dot	Fed 209A	WAA12 & DRA12 & DRXL 1 1/8		16.6 grs 9770 psi		
1 1/8	Clay Dot	Fed 209A	Figure 8 & DRRF8		16.9 grs 9570 psi		
1 1/8	Clay Dot	Win 209	WAA12 & DRA12 & DRXL 1 1/8		17.3 grs 9520 psi		
1 1/8	Clay Dot	Win 209	Figure 8 & DRRF8		17.5 grs 9260 psi		
1 1/8	Clay Dot	CCI 209M	Figure 8 & DRRF8		17.5 grs 10850 psi		
1 1/8	Clay Dot	CCI 209	Figure 8 & DRRF8		17.5 grs 9020 psi		
1 1/8	e3	Rem 209P	RXP 12	15.0 grs 8655 psi	16.3 grs 9465 psi	17.9 grs 10660 psi	
1 1/8	e3	Rem 209P	Figure 8 & DRRF8	15.0 grs 8760 psi	16.5 grs 9930 psi	17.5 grs 10775 psi	
1 1/8	e3	Rem 209P	WAA12 & DRA12 & DRXL 1 1/8	15.0 grs 9175 psi	16.0 grs 10170 psi	17.2 grs 10960 psi	
1 1/8	e3	Rem 209P	CB 0118	15.4 grs 8075 psi	16.2 grs 8640 psi	17.7 grs 10575 psi	
1 1/8	e3	Rem 209P	CB 4118	15.5 grs 7950 psi	16.5 grs 9390 psi	18.0 grs 10710 psi	
1 1/8	Red Dot	Rem 209P	Versalite		17.5 grs 9000 psi		
1 1/8	Red Dot	Rem 209P	CB 3118-12	16.2 grs 8600 psi	17.0 grs 8800 psi	18.5 grs 9800 psi	
1 1/8	Red Dot	Rem 209P	Blue Duster	16.0 grs 9700 psi	17.0 grs 9800 psi	18.5 grs 10300 psi	
1 1/8	Red Dot	Rem 209P	Red PC	16.5 grs 8700 psi	17.5 grs 9000 psi	19.5 grs 10100 psi	
1 1/8	Red Dot	Rem 209P	Figure 8 & DRRF8	16.5 grs 8300 psi	18.0 grs 9200 psi	19.0 grs 10100 psi	
1 1/8	Red Dot	Rem 209P	RXP 12	16.0 grs 8700 psi	17.5 grs 8900 psi	19.0 grs 10000 psi	
1 1/8	Red Dot	Rem 209P	WAA12 & DRA12 & DRXL 1 1/8	16.0 grs 9400 psi	17.0 grs 10100 psi	18.3 grs 10300 psi	
1 1/8	Red Dot	Rem 209P	WT-12	15.5 grs 9000 psi	18.5 grs 8800 psi	19.5 grs 10700 psi	
1 1/8	Red Dot	Rem 209P	Windjammer	16.5 grs 7900 psi	17.5 grs 8900 psi	18.5 grs 9400 psi	
1 1/8	Red Dot	CCI 209M	Versalite		17.0 grs 9100 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	CCI 209M	Red PC	16.5 grs 9200 psi	17.5 grs 9400 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	CCI 209M	Figure 8 & DRRF8	16.5 grs 9100 psi	17.5 grs 9300 psi	18.5 grs 10400 psi	
1 1/8	Red Dot	CCI 209M	RXP 12	16.0 grs 9300 psi	17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Red Dot	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs 9800 psi	16.5 grs 10200 psi		
1 1/8	Red Dot	CCI 209M	Windjammer	16.5 grs 8300 psi	17.0 grs 9000 psi	18.5 grs 9700 psi	
1 1/8	Red Dot	FIO 616	Figure 8 & DRRF8	16.5 grs 9000 psi	17.5 grs 8900 psi	19.5 grs 10600 psi	
1 1/8	Red Dot	Win 209	Figure 8 & DRRF8	16.5 grs 8900 psi	18.0 grs 9500 psi	19.0 grs 10400 psi	
1 1/8	Red Dot	CCI 209	Figure 8 & DRRF8		17.5 grs 8600 psi	19.5 grs 9900 psi	
1 1/8	Red Dot	Fed 209A	Red PC		17.0 grs 10700 psi		
1 1/8	Red Dot	Fed 209A	Figure 8 & DRRF8		16.5 grs 10300 psi	17.0 grs 10400 psi	

12 Gauge 2 3/4 inch Remington Plastic Shells (STS, Nitro 27, Premier RXP and Gun Club) continued

			12 Gauge	e 1 1/8 Ounce Ta	rget Loads conti	nued	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Red Dot	Fed 209A	RXP 12		16.0 grs 10600 psi	17.0 grs 10100 psi	
1 1/8	Red Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8		17.5 grs 10500 psi		
1 1/8	Green Dot	Rem 209P	CB 3118-12	17.5 grs 7800 psi	19.0 grs 8700 psi	20.3 grs 9700 psi	21.0 grs 9800 psi
1 1/8	Green Dot	Rem 209P	Blue Duster	17.5 grs 8200 psi	18.5 grs 9000 psi	20.0 grs 9800 psi	21.5 grs 10300 psi
1 1/8	Green Dot	Rem 209P	Versalite		19.0 grs 8000 psi	20.0 grs 8700 psi	
1 1/8	Green Dot	Rem 209P	Red PC		19.0 grs 7600 psi	21.0 grs 8500 psi	
1 1/8	Green Dot	Rem 209P	Figure 8 & DRRF8	19.0 grs 7300 psi	18.5 grs 8500 psi	21.0 grs 8800 psi	21.5 grs 10700 psi
1 1/8	Green Dot	Rem 209P	RXP 12	19.0 grs 7700 psi	18.0 grs 8700 ps	20.5 grs 8700 psi	
1 1/8	Green Dot	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	18.0 grs 8500 ps	19.0 grs 6700 psi	21.0 grs 8900 psi	21.1 grs 10000 psi
1 1/8	Green Dot	Rem 209P	WT-12	18.0 grs 8100 psi	19.5 grs 8300 psi	21.5 grs 8700 psi	22.0 grs 10600 psi
1 1/8	Green Dot	Rem 209P	Windjammer	18.0 grs 7300 psi	19.5 grs 7800 psi	20.5 grs 8200 psi	
1 1/8	Green Dot	Win 209	Figure 8 & DRRF8		19.0 grs 8100 psi	20.0 grs 8600 psi	
1 1/8	Green Dot	Win 209	RXP 12				22.0 grs 9400 psi
1 1/8	Green Dot	CCI 209M	Versalite		19.0 grs 8000 psi	20.0 grs 9200 psi	21.5 grs 10200 psi
1 1/8	Green Dot	CCI 209M	Red PC	18.0 grs 7400 psi	19.0 grs 7700 psi	20.5 grs 9000 psi	22.0 grs 9600 psi
1 1/8	Green Dot	CCI 209M	Figure 8 & DRRF8	18.0 grs 8400 psi	19.0 grs 8800 psi	20.0 grs 9300 psi	
1 1/8	Green Dot	CCI 209M	RXP 12	17.5 grs 8600 psi	19.0 grs 9100 psi	20.5 grs 9200 psi	22.0 grs 9600 psi
1 1/8	Green Dot	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 8700 psi	19.0 grs 9400 psi	21.0 grs 9600 psi	22.5 grs 10700 psi
1 1/8	Green Dot	CCI 209M	Windjammer	18.0 grs 7600 psi	19.5 grs 7900 psi	20.5 grs 8700 psi	22.0 grs 9400 psi
1 1/8	Green Dot	CCI 209	Figure 8 & DRRF8		19.5 grs 7100 psi	21.0 grs 9700 psi	
1 1/8	Green Dot	Fed 209A	Red PC		19.5 grs 10000 psi		
1 1/8	Green Dot	Fed 209A	Figure 8 & DRRF8		19.5 grs 10100 psi	20.5 grs 10300 psi	
1 1/8	Green Dot	Fed 209A	RXP 12		19.5 grs 10500 psi	21.0 grs 10400 psi	
1 1/8	Green Dot	Fed 209A	Windjammer		20.0 grs 9600 psi		
1 1/8	Green Dot	FIO 616	Figure 8 & DRRF8		19.0 grs 7800 psi	20.0 grs 8700 psi	
1 1/8	Green Dot	FIO 616	RXP 12				22.0 grs 9100 psi
1 1/8	Promo	Rem 209P	Versalite		17.5 grs 9000 psi		
1 1/8	Promo	Rem 209P	CB 3118-12	16.2 grs 8600 psi	17.0 grs 8800 psi	18.5 grs 9800 psi	
1 1/8	Promo	Rem 209P	Blue Duster	16.0 grs 9700 psi	17.0 grs 9800 psi	18.5 grs 10300 psi	
1 1/8	Promo	Rem 209P	Red PC	16.5 grs 8700 psi	17.5 grs 9000 psi	19.5 grs 10100 psi	
1 1/8	Promo	Rem 209P	Figure 8 & DRRF8	16.5 grs 8300 psi	18.0 grs 9200 psi	19.0 grs 10100 psi	
1 1/8	Promo	Rem 209P	RXP 12	16.0 grs 8700 psi	17.5 grs 8900 psi	19.0 grs 10000 psi	
1 1/8	Promo	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs 9400 psi	17.0 grs 10100 psi	18.3 grs 10300 psi	
1 1/8	Promo	Rem 209P	WT-12	15.5 grs 9000 psi	18.5 grs 8800 psi	19.5 grs 10700 psi	

12 Gauge 2 3/4 inch Remington Plastic Shells (STS, Nitro 27, Premier RXP and Gun Club) continued

			12 Gauge	: 1 1/8 Ounce Ta	rget Loads conti	nued	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	essure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Promo	Rem 209P	Windjammer	16.5 grs 7900 psi	17.5 grs 8900 psi	18.5 grs 9400 psi	
1 1/8	Promo	CCI 209M	Versalite		17.0 grs 9100 psi	19.0 grs 10400 psi	
1 1/8	Promo	CCI 209M	Red PC	16.5 grs 9200 psi	17.5 grs 9400 psi	19.0 grs 10400 psi	
1 1/8	Promo	CCI 209M	Figure 8 & DRRF8	16.5 grs 9100 psi	17.5 grs 9300 psi	18.5 grs 10400 psi	
1 1/8	Promo	CCI 209M	RXP 12	16.0 grs 9300 psi	17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Promo	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs 9800 psi	16.5 grs 10200 psi		
1 1/8	Promo	CCI 209M	Windjammer	16.5 grs 8300 psi	17.0 grs 9000 psi	18.5 grs 9700 psi	
1 1/8	Promo	FIO 616	Figure 8 & DRRF8	16.5 grs 9000 psi	17.5 grs 8900 psi	19.5 grs 10600 psi	
1 1/8	Promo	Win 209	Figure 8 & DRRF8	16.5 grs 8900 psi	18.0 grs 9500 psi	19.0 grs 10400 psi	
1 1/8	Promo	CCI 209	Figure 8 & DRRF8		17.5 grs 8600 psi	19.5 grs 9900 psi	
1 1/8	Promo	Fed 209A	Red PC		17.0 grs 10700 psi		
1 1/8	Promo	Fed 209A	Figure 8 & DRRF8		16.5 grs 10300 psi	17.0 grs 10400 psi	
1 1/8	Promo	Fed 209A	RXP 12		16.0 grs 10600 psi	17.0 grs 10100 psi	
1 1/8	Promo	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8		17.5 grs 10500 psi		
1 1/8	American Select	Rem 209P	CB 3118-12	17.5 grs 6900 psi	19.0 grs 8400 psi	20.0 grs 9500 psi	21.5 grs 10600 psi
1 1/8	American Select	Rem 209P	Blue Duster	17.0 grs 8000 psi	18.0 grs 8900 psi	20.0 grs 10200 psi	
1 1/8	American Select	Rem 209P	Red PC	17.5 grs 7000 psi	19.0 grs 8200 psi	20.5 grs 9700 psi	
1 1/8	American Select	Rem 209P	Figure 8 & DRRF8	17.5 grs 7100 psi	19.0 grs 7600 psi	20.5 grs 9100 psi	21.5 grs 9900 psi
1 1/8	American Select	Rem 209P	RXP 12	17.0 grs 7500 psi	18.5 grs 8300 psi	20.5 grs 10200 psi	21.0 grs 10500 psi
1 1/8	American Select	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 8100 psi	18.0 grs 9000 psi	19.2 grs 11000 psi	
1 1/8	American Select	Rem 209P	WT-12	17.0 grs 7300 psi	18.5 grs 8900 psi	20.0 grs 10600 psi	
1 1/8	American Select	Rem 209P	Windjammer	18.0 grs 6900 psi	19.0 grs 7900 psi	20.5 grs 9100 psi	
1 1/8	American Select	Win 209	Figure 8 & DRRF8		18.5 grs 9000 psi	20.0 grs 10200 psi	
1 1/8	American Select	Fed 209A	Figure 8 & DRRF8		18.5 grs 9200 psi	20.0 grs 10700 psi	
1 1/8	20/28	CCI 209M	Figure 8			22.0 grs 7010 psi	23.0 grs 7400 psi
1 1/8	20/28	CCI 209M	CB 3118-12			20.5 grs 8260 psi	21.4 grs 8930 psi
1 1/8	20/28	CCI 209M	Win AA-12			21.3 grs 7730 psi	22.0 grs 7960 psi
1 1/8	20/28	Rem 209P	CB 3118-12			20.8 grs 7660 psi	21.7 grs 8720 psi

12 Gauge 2 3/4 inch Remington Plastic Shells (STS, Nitro 27, Premier RXP and Gun Club) continued

			12 Gauge	e 1 1/8 Ounce Ta	irget Loads conti	inued	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	elocity (fps) & Pre	essure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	20/28	Rem 209P	Figure 8			21.7 grs 6410 psi	22.5 grs 7340 psi
1 1/8	20/28	Fio 616	Figure 8			22.1 grs 6380 psi	23.0 grs 7170 psi
1 1/8	20/28	Win 209	Figure 8			22.0 grs 6710 psi	23.0 grs 7370 psi
1 1/8	20/28	Win 209	CB 3118-12			20.6 grs 8050 psi	21.6 grs 8920 psi
1 1/8	Unique	CCI 209M	Figure 8 & DRRF8			22.5 grs 9500 psi	
1 1/8	Unique	CCI 209	Figure 8 & DRRF8			22.5 grs 8500 psi	
1 1/8	Unique	CCI 209M	Versalite			22.0 grs 8800 psi	23.5 grs 9900 psi
1 1/8	Unique	CCI 209M	Red PC			22.5 grs 8700 psi	24.0 grs 9400 psi
1 1/8	Unique	CCI 209M	RXP 12			22.5 grs 9500 psi	24.0 grs 10400 psi
1 1/8	Unique	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8			22.0 grs 9300 psi	24.0 grs 10300 psi
1 1/8	Unique	CCI 209M	Windjammer			23.5 grs 8200 psi	25.0 grs 9300 psi
1 1/8	Unique	Fed 209A	Figure 8 & DRRF8			23.0 grs 9200 psi	
1 1/8	Unique	Fed 209A	RXP 12			22.0 grs 9100 psi	
1 1/8	Unique	FIO 616	Figure 8 & DRRF8			23.0 grs 8500 psi	23.5 grs 9100 psi
1 1/8	Unique	Rem 209P	CB 3118-12			22.2 grs 7300 psi	
1 1/8	Unique	Rem 209P	Blue Duster			22.7 grs 7800 psi	
1 1/8	Unique	Rem 209P	Versalite			22.0 grs 7900 psi	
1 1/8	Unique	Rem 209P	Red PC			22.5 grs 7800 psi	
1 1/8	Unique	Rem 209P	Figure 8 & DRRF8			22.5 grs 8200 psi	
1 1/8	Unique	Rem 209P	RXP 12			22.5 grs 8300 psi	
1 1/8	Unique	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8			22.0 grs 8900 psi	
1 1/8	Unique	Rem 209P	WT-12			23.5 grs 8300 psi	
1 1/8	Unique	Rem 209P	Windjammer			23.5 grs 7000 psi	
1 1/8	Unique	Win 209	Figure 8 & DRRF8			22.5 grs 8400 psi	
1 1/8	Unique	Win 209	RXP 12				24.5 grs 8800 psi
1 1/8	Herco	CCI 209M	Versalite				24.5 grs 9900 psi
1 1/8	Herco	CCI 209M	Red PC				25.0 grs 9500 psi
1 1/8	Herco	CCI 209M	RXP 12				24.5 grs 9800 psi
1 1/8	Herco	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8				24.5 grs 10400 psi
1 1/8	Herco	CCI 209M	Windjammer				25.0 grs 9400 psi
1 1/8	Herco	FIO 616	RXP 12			23.0 grs 8500 psi	

28 continued

11/4 Pro Reach CCI 209M Rem 12L 28.7 grs 10820 psi				12 Ga	uge 1 1/4 Ounce	Loads		
11/4 20/28 Rem 209P SP 12 23.0 grs 8840 psi	Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	elocity (fps) & Pre	ssure (psi)
11/4 20/28 Win 209 SP 12 23.0 grs 8950 psi 20/28 20/28 CC 1209M SP 12 22.5 grs 10390 psi 22.5 grs 10390 psi 22.7 grs 10820 psi 22.	(oz)				1250 fps	1350 fps	1375 fps	1400 fps
11/4 20/28	1 1/4	20/28	Rem 209P	SP 12	23.0 grs 8840 psi			
11/4 Pro Reach	1 1/4	20/28	Win 209	SP 12	23.0 grs 8950 psi			
11/4	1 1/4	20/28	CCI 209M	SP 12	23.5 grs 9510 psi			
11/4 Pro Reach CCI 209M Rem 12L 28.7 grs 10820 psi	1 1/4	20/28	Rem 209P	WAA12F114	22.5 grs 10390 psi			
11/4	1 1/4	Pro Reach	Win 209	CB 1138-12				30.0 grs 10710 ps
11/4	1 1/4	Pro Reach	CCI 209M	Rem 12L			28.7 grs 10820 psi	
11/4	1 1/4	Pro Reach	CCI 209M	WAAF 114		27.0 grs 11000 psi		
11/4	1 1/4	Pro Reach	Fed 209A	Rem 12L			28.1 grs 10860 psi	
11/4	1 1/4	Pro Reach	Fed 209A	WAA 12R		27.3 grs 10630 psi		
11/4	1 1/4	Pro Reach	Rem 209P	Fed 12S4		27.4 grs 11060 psi		
11/4	1 1/4	Pro Reach	Rem 209P	Rem 12L				29.5 grs 10940 ps
11/4	1 1/4	Pro Reach	Rem 209P	WAA 12R			28.2 grs 10690 psi	
11/4	1 1/4	Pro Reach	Cheddite	CB 1138-12		27.6 grs 10230 psi		28.5 grs 10890 psi
1 1/4	1 1/4	Pro Reach	Rem 209P	WAA12F114			29.0 grs 10590 psi	
1 1/4 Unique FI0 616 SP 12 23.0 grs 9600 psi 1 1/4 Unique Rem 209P Versalite 23.5 grs 9400 psi 1 1/4 Unique Rem 209P SP 12 23.5 grs 9300 psi 1 1/4 Unique Rem 209P WAA12F114 24.0 grs 10100 psi 1 1/4 Unique Win 209 SP 12 23.5 grs 10000 psi 1 1/4 Herco CCI 209M SP 12 24.5 grs 9300 psi 1 1/4 Herco FI0 616 SP 12 24.5 grs 9300 psi 1 1/4 Herco Rem 209P Versalite 25.0 grs 9600 psi 1 1/4 Herco Rem 209P Versalite 24.5 grs 9300 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9300 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9600 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi (oz) 1090 fps	1 1/4	Pro Reach	Rem 209P	WAA 12R			28.2 grs 10500 psi	
1 1/4	1 1/4	Unique	CCI 209M	SP 12	23.5 grs 10300 psi			
1 1/4 Unique Rem 209P SP 12 23.5 grs 9300 psi	1 1/4	Unique	FIO 616	SP 12	23.0 grs 9600 psi			
1 1/4 Unique Rem 209P WAA12F114 24.0 grs 10100 psi 1 1/4 Unique Win 209 SP 12 23.5 grs 10000 psi 1 1/4 Herco CCI 209M SP 12 24.5 grs 10000 psi 1 1/4 Herco FIO 616 SP 12 24.5 grs 9300 psi 1 1/4 Herco Rem 209P Versalite 25.0 grs 9600 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9600 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi (oz) 1 3/8 Ounce Loads Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 g	1 1/4	Unique	Rem 209P	Versalite	23.5 grs 9400 psi			
1 1/4 Unique Win 209 SP 12 23.5 grs 10000 psi 1 1/4 Herco CCI 209M SP 12 24.5 grs 10000 psi 1 1/4 Herco FIO 616 SP 12 24.5 grs 9300 psi 1 1/4 Herco Rem 209P Versalite 25.0 grs 8400 psi 1 1/4 Herco Rem 209P SP 12 25.0 grs 9600 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9600 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 1 1/4 Blue Dot Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1090 fps 1145 fps 1200 fps 1250 fps 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Unique	Rem 209P	SP 12	23.5 grs 9300 psi			
1 1/4 Herco CCI 209M SP 12 24.5 grs 10000 psi 1 1/4 Herco FI0 616 SP 12 24.5 grs 9300 psi 1 1/4 Herco Rem 209P Versalite 25.0 grs 8400 psi 1 1/4 Herco Rem 209P SP 12 25.0 grs 9600 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9300 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi Table Triple Tri	1 1/4	Unique	Rem 209P	WAA12F114	24.0 grs 10100 psi			
1 1/4 Herco FIO 616 SP 12 24.5 grs 9300 psi 1 1/4 Herco Rem 209P Versalite 25.0 grs 8400 psi 1 1/4 Herco Rem 209P SP 12 25.0 grs 9600 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9300 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 12 Gauge 1 3/8 Ounce Loads Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1 090 fps 1 145 fps 1 200 fps 1 250 fps 1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Unique	Win 209	SP 12	23.5 grs 10000 psi			
1 1/4 Herco Rem 209P Versalite 25.0 grs 8400 psi 1 1/4 Herco Rem 209P SP 12 25.0 grs 9600 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9300 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 1 2 Gauge 1 3/8 Ounce Loads Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1090 fps 1145 fps 1200 fps 1250 fps 1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Herco	CCI 209M	SP 12	24.5 grs 10000 psi			
1 1/4 Herco Rem 209P SP 12 25.0 grs 9600 psi 1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9300 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 12 Gauge 1 3/8 Ounce Loads Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1090 fps 1145 fps 1200 fps 1250 fps 1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Herco	FIO 616	SP 12	24.5 grs 9300 psi			
1 1/4 Herco Rem 209P WAA12F114 24.5 grs 9300 psi 24.5 grs 9600 psi 1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 24.5 grs 9800 psi 12 Gauge 1 3/8 Ounce Loads Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1090 fps 1145 fps 1200 fps 1250 fps 1 3/8 Blue Dot Fl0 616 SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Herco	Rem 209P	Versalite	25.0 grs 8400 psi			
1 1/4 Herco Win 209 SP 12 24.5 grs 9600 psi 1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi 12 Gauge 1 3/8 Ounce Loads Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1090 fps 1145 fps 1200 fps 1250 fps 1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9100 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Herco	Rem 209P	SP 12	25.0 grs 9600 psi			
1 1/4 Blue Dot Win 209 SP 12 34.5 grs 9800 psi	1 1/4	Herco	Rem 209P	WAA12F114	24.5 grs 9300 psi			
Table Tabl	1 1/4	Herco	Win 209	SP 12	24.5 grs 9600 psi			
Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) (oz) 1090 fps 1145 fps 1200 fps 1250 fps 13/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 13/8 Blue Dot FIO 616 SP 12 34.0 grs 9100 psi 13/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 13/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 1/4	Blue Dot	Win 209	SP 12	34.5 grs 9800 psi			
(oz) 1090 fps 1145 fps 1200 fps 1250 fps 1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9100 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi				1	2 Gauge 1 3/8 0	unce Loads		
1 3/8 Blue Dot CCI 209M SP 12 34.0 grs 9400 psi 1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9100 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	Shot	Powder	Primer	Wad	Charge We	eight (grains) / V e	elocity (fps) & Pre	ssure (psi)
1 3/8 Blue Dot FIO 616 SP 12 34.0 grs 9100 psi 1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 3/8 Blue Dot Rem 209P CB1138-12 34.0 grs 9900 psi 1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 3/8	Blue Dot	CCI 209M	SP 12				34.0 grs 9400 psi
1 3/8 Blue Dot Rem 209P SP 12 35.0 grs 9300 psi	1 3/8	Blue Dot	FIO 616	SP 12				34.0 grs 9100 psi
	1 3/8	Blue Dot	Rem 209P	CB1138-12				34.0 grs 9900 psi
1 3/8 Blue Dot Win 209 SP 12 35.0 grs 9100 psi	1 3/8	Blue Dot	Rem 209P	SP 12				35.0 grs 9300 psi
	1 3/8	Blue Dot	Win 209	SP 12				35.0 grs 9100 psi

2 Gaug	je 2 3/4 inch Remin	gton Plastic	Shells (STS, Nitro 27	, Premier RXP and	d Gun Club) contin	ued	
			12 Gauge 1 3 ,	/8 Ounce Loads	S continued		
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Ve	elocity (fps) & Pr	essure (psi)
(oz)				1225 fps	1250fps	1275 fps	1300 fps
1 3/8	Pro Reach	Rem 209P	CB 3118-12				26.5 grs 10740 psi
1 3/8	Pro Reach	Win 209	SP-12			26.7 grs 10710 psi	
1 3/8	Pro Reach	Fed 209A	SP-12		25.0 grs 10780 psi		
1 3/8	Pro Reach	Rem 209P	SP-12		26.2 grs 10630 psi		
1 3/8	Pro Reach	CCI 209M	SP-12			26.4 grs 10840 psi	
1 3/8	Pro Reach	CCI 209M	12S4	23.5 grs 10760 psi			
1 3/8	Pro Reach	Fed 209A	12S4	22.5 grs 10760 psi			
		12 GA	UGE 2 3/4 INCH V	VINCHESTER A	AA PLASTIC SH	ELLS	
			12 Gauge 7/8 a	nd 1 Ounce Ta	rget Loads		
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Ve	elocity (fps) & Pr	essure (psi)
(oz)				1145 fps	1200 fps	1250 fps	1300 fps
7/8	e3	Win 209	TGT 12 & DRRT12		15.7 grs 7380 psi	16.5 grs 8200 psi	18.3 grs 8730 ps
7/8	e3	Win 209	CB 4100-12B		16.0 grs 6870 psi	17.0 grs 7475 psi	
7/8	e3	Win 209	WAA12L & DR XXL(Pink)		16.0 grs 7425 psi	17.0 grs 8210 psi	18.0 grs 8385 ps
7/8	Red Dot	Win 209	CB 4100-12		17.5 grs 6900 psi	18.0 grs 7600 psi	18.5 grs 7900 ps
7/8	Red Dot	Win 209	Purple PC		17.0 grs 7500 psi	18.0 grs 8400 psi	19.5 grs 9000 ps
7/8	Red Dot	Win 209	TGT 12 & DRRT12		16.5 grs 7300 psi	18.0 grs 8400 psi	19.0 grs 9300 ps
7/8	Red Dot	Win 209	WAA12L & DR XXL(Pink)		16.5 grs 7900 psi	17.5 grs 8600 psi	18.5 grs 9300 ps
7/8	Red Dot	Win 209	WAA12SL&DRXL-1 & Jammer XL-1		16.5 grs 7300 psi	18.0 grs 9300 psi	19.0 grs 10300 p
7/8	American Select	Win 209	CB 4100-12B		18.5 grs 5600 psi	19.5 grs 6100 psi	20.5 grs 6900 ps
7/8	American Select	Win 209	WAA12L & DR XXL (Pink)		17.6 grs 6200 psi	18.5 grs 7200 psi	19.5 grs 8000 ps
7/8	American Select	Win 209	CB 1100-12				21.0 grs 7200 ps
7/8	American Select	Win 209	Purple PC				20.5 grs 7200 ps
7/8	American Select	Win 209	TGT 12 & DRRT12				20.5 grs 7600 ps
7/8	American Select	Win 209	WAA12SL&DRXL-1 & Jammer XL-1				20.5 grs 8400 ps
7/8	Promo	Win 209	CB 4100-12		17.5 grs 6900 psi	18.0 grs 7600 psi	18.5 grs 7900 ps
7/8	Promo	Win 209	Purple PC		17.0 grs 7500 psi	18.0 grs 8400 psi	19.5 grs 9000 ps
7/8	Promo	Win 209	TGT 12 & DRRT12		16.5 grs 7300 psi	18.0 grs 8400 psi	19.0 grs 9300 ps
7/8	Promo	Win 209	WAA12L & DR XXL(Pink)		16.5 grs 7900 psi	17.5 grs 8600 psi	18.5 grs 9300 ps
7/8	Promo	Win 209	WAA12SL & DRXL-1 & Jammer XL-1		16.5 grs 7300 psi	18.0 grs 9300 psi	19.0 grs 10300 p
7/8	Green Dot	Win 209	Purple PC				21.5 grs 7900 ps
7/8	Green Dot	Win 209	TGT 12 & DRRT12				21.0 grs 8400 ps

32

		1:	2 Gauge 7/8 and 1	Ounce Target	Loads continue	d	
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Vo	elocity (fps) & Pro	essure (psi)
(oz)				1145 fps	1200 fps	1250 fps	1300 fps
7/8	Green Dot	Win 209	WAA12L & DR XXL(Pink)				20.0 grs 8300 psi
7/8	Green Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-1				20.5 grs 8800 psi
1	Clay Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-1		17.2 grs 9460 psi	18.5 grs 10960 psi	
1	Clay Dot	Rem 209P	WAA12SL & DRXL-1 & Jammer XL-2		17.4 grs 9280 psi	18.6 grs 10840 psi	
1	e3	Win 209	WAA12L & DR XXL (Pink)	15.0 grs 8635 psi	16.5 grs 9410 psi	17.5 grs 9740 psi	18.5 grs 10870 psi
1	e3	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	15.5 grs 8085 psi	16.5 grs 9240 psi	18.0 grs 10045 psi	18.5 grs 10080 psi
1	e3	Win 209	TGT 12 & DRRT12	15.5 grs 8530 psi	16.5 grs 9305 psi	17.5 grs 10070 psi	18.5 grs 11015 psi
1	e3	Win 209	CB 1100-12	16.0 grs 8285 psi	17.0 grs 8805 psi	18.0 grs 9245 psi	19.0 grs 10135 psi
1	e3	Win 209	Green Duster	16.0 grs 8730 psi	17.0 grs 9525 psi	18.0 grs 10580 psi	
1	Red Dot	Win 209	CB 1100-12	17.0 grs 7900 psi	18.0 grs 8600 psi	19.0 grs 9300 psi	19.5 grs 8900 psi
1	Red Dot	Win 209	WAA12L & DR XXL (Pink)	16.5 grs 8000 psi			
1	Red Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-2	16.5 grs 7900 psi	18.0 grs 10200 psi	19.0 grs 10500 psi	19.5 grs 11200 psi
1	Red Dot	Win 209	Purple PC		18.0 grs 8900 psi	19.0 grs 9700 psi	20.0 grs 10400 psi
1	Red Dot	Win 209	TGT 12 & DRRT12		18.0 grs 9200 psi	19.5 grs 9800 psi	
1	Red Dot	Win 209	WT 12-Orange		17.5 grs 10600 psi		
1	Red Dot	Win 209	RXP 12				20.0 grs 10100 psi
1	Red Dot	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8				18.5 grs 10400 psi
1	Red Dot	Win 209	WAA 12 & DRA12 & DRXL 1 1/8				19.0 grs 10500 psi
1	American Select	Win 209	CB 1100-12	18.0 grs 6700 psi	18.5 grs 6900 psi	20.5 grs 8800 psi	21.5 grs 9200 psi
1	American Select	Win 209	Green Duster		19.0 grs 8100 psi	20.0 grs 8900 psi	21.5 grs 9700 psi
1	American Select	Win 209	TGT 12 & DRRT12		19.0 grs 8000 psi	20.0 grs 9100 psi	21.0 grs 9500 psi
1	American Select	Win 209	WT 12-Orange		19.0 grs 8400 psi		
1	American Select	Win 209	WAA12L & DR XXL (Pink)	18.0 grs 6700 psi			
1	American Select	Win 209	WAA12SL & DRXL-1 & Jammer XL-2	17.5 grs 7600 psi	19.0 grs 8200 psi	20.0 grs 9500 psi	21.5 grs 10300 psi
1	Green Dot	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8				21.5 grs 9900 psi
1	Green Dot	Win 209	CB 1100-12	18.5 grs 7100 psi	19.8 grs 7700 psi	21.0 grs 8200 psi	22.0 grs 9100 psi
1	Green Dot	Win 209	Green Duster		19.5 grs 8300 psi	20.5 grs 9200 psi	22.0 grs 9500 psi
1	Green Dot	Win 209	Purple PC		19.5 grs 7000 psi	21.5 grs 8700 psi	22.0 grs 9000 psi

12 Gauge 2 3/4 inch Winchester AA Plastic Shells continued

		12	2 Gauge 7/8 and 1	Ounce Target	t Loads continued	d	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	elocity (fps) & Pr	essure (psi)
(oz)				1145 fps	1200 fps	1250 fps	1300 fps
1	Green Dot	Win 209	TGT 12 & DRRT12		19.5 grs 7900 psi	21.0 grs 8800 psi	22.0 grs 9700 ps
1	Green Dot	Win 209	RXP 12				21.0 grs 8800 ps
1	Green Dot	Win 209	WT 12-Orange		19.5 grs 8100 psi		
1	Green Dot	Win 209	WAA 12 & DRA12 & DRXL 1 1/8				20.0 grs 8700 ps
1	Green Dot	Win 209	WAA12L & DR XXL (Pink)	18.5 grs 7600 psi	19.5 grs 8500 psi		
1	Green Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-2	18.0 grs 8000 psi		21.0 grs 9200 psi	21.5 grs 9500 ps
			12 Gauge	e 1 1/8 Ounce	Loads		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	elocity (fps) & Pr	essure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Clay Dot	Win 209	Figure 8 & DRRF8		17.0 grs 8570 psi		
1 1/8	Clay Dot	Rem 209P	Figure 8 & DRRF8		17.3 grs 8300 psi		
1 1/8	Clay Dot	Win 209	WAA 12 & DRA12 & DRXL 1 1/8		17.3 grs 8740 psi		
1 1/8	Clay Dot	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8		17.0 grs 8520 psi		
1 1/8	e3	Win 209	Figure 8 & DRRF8	15.0 grs 8555 psi	16.0 grs 9325 psi	17.5 grs 10920 psi	
1 1/8	e3	Win 209	CB 4118	15.0 grs 9645 psi	16.5 grs 9835 psi	17.5 grs 10855 psi	
1 1/8	e3	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	15.0 grs 8645 psi	16.0 grs 9625 psi		
1 1/8	e3	Win 209	RXP 12	15.0 grs 8700 psi	16.5 grs 9835 psi		
1 1/8	e3	Win 209	CB 0118	15.0 grs 8905 psi	16.0 grs 9060 psi	17.0 grs 9970 psi	
1 1/8	e3	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	15.0 grs 9090 psi	16.0 grs 9900 psi	17.0 grs 10450 psi	
1 1/8	e3	Win 209	Blue Duster	15.0 grs 9015 psi	16.0 grs 10265 psi	17.0 grs 10505 psi	
1 1/8	Red Dot	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 9800 psi	17.5 grs 10400 psi	18.5 grs 10500 psi	
1 1/8	Red Dot	FIO 616	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs 8900 psi	17.0 grs 10200 psi	18.0 grs 10500 psi	
1 1/8	Red Dot	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 8100 psi	17.5 grs 8700 psi	19.0 grs 9500 psi	
1 1/8	Red Dot	Win 209	CB 1100-12	16.0 grs 8000 psi			
1 1/8	Red Dot	Win 209	CB 3118-12		16.8 grs 9100 psi	18.5 grs 10500 psi	
1 1/8	Red Dot	Win 209	Blue Duster	15.5 grs 10300 ps	i 16.5 grs 10600 psi	19.0 grs 10800 psi	
1 1/8	Red Dot	Win 209	Versalite	16.5 grs 9000 psi	18.0 grs 9500 psi	19.0 grs 9700 psi	
1 1/8	Red Dot	Win 209	Red PC	16.0 grs 9100 psi	17.5 grs 9500 psi	18.5 grs 10300 psi	
1 1/8	Red Dot	Win 209	Figure 8 & DRRF8	16.0 grs 8300 psi	17.5 grs 9900 psi	18.5 grs 10700 psi	
1 1/8	Red Dot	Win 209	RXP 12	16.5 grs 8400 psi	17.0 grs 9000 psi	18.5 grs 9800 psi	

			12 Gauge 1 1,	/8 Ounc	e Load	S continu	ıed			
Shot	Powder	Primer	Wad	Cha	arge We	ight (gra	ains) / V e	elocity (1	ps) & Pro	essure (psi)
(oz)				1090) fps	114	5 fps	120	0 fps	1250 fps
1 1/8	Red Dot	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs	9500 psi	17.0 grs	10000 psi	18.0 grs	10400 psi	
1 1/8	Red Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	16.0 grs	9300 psi					
1 1/8	Red Dot	Win 209	WT 12 Orange			16.5 grs	10700 psi	17.0 grs	10700 psi	
1 1/8	Red Dot	Win 209	Windjammer			17.5 grs	9300 psi			
1 1/8	Red Dot	Fed 209A	CB 3118-12			17.0 grs	9600 psi	18.5 grs	10500 psi	
1 1/8	Red Dot	Fed 209A	Versalite			17.0 grs	10300 psi	18.0 grs	10700 psi	
1 1/8	Red Dot	Fed 209A	Red PC			17.0 grs	10100 psi	18.0 grs	10000 psi	
1 1/8	Red Dot	Fed 209A	Figure 8 & DRRF8			17.0 grs	9800 psi	18.5 grs	10200 psi	
1 1/8	Red Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8			17.0 grs	10600 psi			
1 1/8	Red Dot	Fed 209A	Windjammer			17.0 grs	9000 psi	18.0 grs	10000 psi	
1 1/8	American Select	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs	8700 psi	18.5 grs	9800 psi	19.5 grs	10800 psi	
1 1/8	American Select	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs	8000 psi	19.0 grs	8700 psi	21.0 grs	9600 psi	
1 1/8	American Select	Rem 209P	Figure 8 & DRRF8							22.5 grs 9400 psi
1 1/8	American Select	Win 209	CB 1100-12	17.0 grs	7600 psi					
1 1/8	American Select	Win 209	CB 3118-12			18.5 grs	9000 psi	19.5 grs	10200 psi	20.5 grs 10700 psi
1 1/8	American Select	Win 209	Blue Duster	17.0 grs	8300 psi	18.0 grs	9000 psi	19.5 grs	10000 psi	
1 1/8	American Select	Win 209	Red PC	17.0 grs	7300 psi	18.5 grs	8600 psi	20.0 grs	10100 psi	21.5 grs 10800 psi
1 1/8	American Select	Win 209	Figure 8 & DRRF8	17.5 grs	8100 psi	19.0 grs	9400 psi	20.0 grs	9800 psi	
1 1/8	American Select	Win 209	RXP 12	17.0 grs	9100 psi	19.0 grs	9400 psi	20.5 grs	10700 psi	21.0 grs 10800 psi
1 1/8	American Select	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs	9000 psi	18.0 grs	9400 psi	19.5 grs	10300 psi	
1 1/8	American Select	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	16.8 grs	8400 psi					
1 1/8	American Select	Win 209	WT 12 Orange			18.5 grs	9600 psi	19.5 grs	10700 psi	
1 1/8	American Select	Win 209	Windjammer			18.5 grs	8100 psi	20.5 grs	9200 psi	
1 1/8	Promo	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs	9800 psi	17.5 grs	10400 psi	18.5 grs	10500 psi	
1 1/8	Promo	FIO 616	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs	8900 psi	17.0 grs	10200 psi	18.0 grs	10500 psi	
1 1/8	Promo	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs	8100 psi	17.5 grs	8700 psi	19.0 grs	9500 psi	
1 1/8	Promo	Win 209	CB 1100-12	16.0 grs	8000 psi					
1 1/8	Promo	Win 209	CB 3118-12			16.8 grs	9100 psi	18.5 grs	10500 psi	
1 1/8	Promo	Win 209	Blue Duster	15.5 grs	10300 psi	16.5 grs	10600 psi	19.0 grs	10800 psi	
1 1/8	Promo	Win 209	Versalite	16.5 grs	9000 psi	18.0 grs	9500 psi	19.0 grs	9700 psi	

12 Gauge 2 3/4 inch Winchester AA Plastic Shells continued

			12 Gauge	e 1 1/8 Ounce L	.oads continued		
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Ve	elocity (fps) & Pr	essure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Promo	Win 209	Red PC	16.0 grs 9100 psi	17.5 grs 9500 psi	18.5 grs 10300 psi	
1 1/8	Promo	Win 209	Figure 8 & DRRF8	16.0 grs 8300 psi	17.5 grs 9900 psi	18.5 grs 10700 psi	
1 1/8	Promo	Win 209	RXP 12	16.5 grs 9000 psi	17.0 grs 8400 psi	18.5 grs 9800 psi	
1 1/8	Promo	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	16.0 grs 9500 psi	17.0 grs 10000 psi	18.0 grs 10400 psi	
1 1/8	Promo	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	16.0 grs 9300 psi			
1 1/8	Promo	Win 209	WT 12 Orange		16.5 grs 10700 psi	17.0 grs 10700 psi	
1 1/8	Promo	Win 209	Windjammer		17.5 grs 9300 psi		
1 1/8	Promo	Fed 209A	CB 3118-12		17.0 grs 9600 psi	18.5 grs 10500 psi	
1 1/8	Promo	Fed 209A	Versalite		17.0 grs 10300 psi	18.0 grs 10700 psi	
1 1/8	Promo	Fed 209A	Red PC		17.0 grs 10100 psi	18.0 grs 10000 psi	
1 1/8	Promo	Fed 209A	Figure 8 & DRRF8		17.0 grs 9800 psi	18.5 grs 10200 psi	
1 1/8	Promo	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8		17.0 grs 10600 psi		
1 1/8	Promo	Fed 209A	Windjammer		17.0 grs 9000 psi	18.0 grs 10000 psi	
1 1/8	Green Dot	Win 209	CB 1100-12	17.5 grs 7800 psi			
1 1/8	Green Dot	Win 209	CB 3118-12		19.1 grs 9300 psi	20.0 grs 9800 psi	
1 1/8	Green Dot	Win 209	Blue Duster	17.5 grs 8300 psi	19.0 grs 9300 psi	20.0 grs 9400 psi	
1 1/8	Green Dot	Win 209	Versalite	17.5 grs 7800 psi	19.5 grs 8000 psi	21.0 grs 9000 psi	22.0 grs 9900 psi
1 1/8	Green Dot	Win 209	Red PC	18.0 grs 7300 psi	19.0 grs 8300 psi	20.5 grs 9800 psi	22.0 grs 10300 psi
1 1/8	Green Dot	Win 209	Figure 8 & DRRF8	18.0 grs 7400 psi	19.0 grs 8600 psi	20.5 grs 9500 psi	22.0 grs 10300 psi
1 1/8	Green Dot	Win 209	RXP 12	17.5 grs 7600 psi	18.0 grs 8100 psi	19.5 grs 8900 psi	21.0 grs 9500 psi
1 1/8	Green Dot	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	17.5 grs 8100 psi	18.0 grs 8500 psi	19.5 grs 9300 psi	21.5 grs 10500 psi
1 1/8	Green Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8000 psi			
1 1/8	Green Dot	Win 209	WT 12 Orange	16.5 grs 9000 psi	18.0 grs 9400 psi	20.0 grs 9200 psi	21.5 grs 9800 psi
1 1/8	Green Dot	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8		18.5 grs 10100 psi	20.0 grs 10400 psi	
1 1/8	Green Dot	Win 209	Windjammer		18.0 grs 8400 psi	21.0 grs 9000 psi	
1 1/8	Green Dot	Fed 209A	CB 3118-12		18.5 grs 8400 psi	19.5 grs 9300 psi	
1 1/8	Green Dot	Fed 209A	Versalite		18.5 grs 9300 psi	19.5 grs 10400 psi	
1 1/8	Green Dot	Fed 209A	Red PC		18.5 grs 8700 psi	19.5 grs 10500 psi	
1 1/8	Green Dot	Fed 209A	Figure 8 & DRRF8		18.5 grs 8600 psi	19.5 grs 9400 psi	
1 1/8	Green Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8		18.0 grs 9300 psi	19.0 grs 10200 psi	
1 1/8	Green Dot	Fed 209A	Windjammer		18.5 grs 8200 psi	20.0 grs 9200 psi	
1 1/8	Green Dot	FIO 616	WAA 12 & DRA12 & DRXL 1 1/8		18.5 grs 9400 psi	20.0 grs 9500 psi	23.5 grs 10100 psi

			12 Gauge	e 1 1/8 Ounce L	.oads continued		
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Ve	elocity (fps) & Pro	essure (psi)
(oz)				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Green Dot	Rem 209P	WAA 12 &D RA12 & DRXL 1 1/8			20.0 grs 9800 psi	
1 1/8	20/28	Win 209	Figure 8			21.7 grs 6750 psi	23.0 grs 7550 psi
1 1/8	20/28	CCI 209M	WAA-12			21.0 grs 7360 ps	22.3 grs 7930 psi
1 1/8	20/28	CCI 209M	CB 3118-12				22.3 grs 7340 psi
1 1/8	20/28	Win 209	CB 3118-12				22.5 grs 6920 psi
1 1/8	20/28	Rem 209P	Figure 8			21.5 grs 6700 psi	23.1 grs 7580 psi
1 1/8	20/28	CCI 209M	Figure 8			22.0 grs 6980 psi	23.1 grs 7500 psi
1 1/8	20/28	Fio 616	Figure 8				23.1 grs 7100 psi
1 1/8	Unique	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8			21.5 grs 10300 psi	
1 1/8	Unique	FIO 616	WAA 12 & DRA12 & DRXL 1 1/8			21.5 grs 9100 psi	
1 1/8	Unique	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8			23.0 grs 7500 psi	24.0 grs 9300 psi
1 1/8	Unique	Win 209	CB 3118-12			22.5 grs 8800 psi	
1 1/8	Unique	Win 209	Blue Duster			22.0 grs 8300 psi	
1 1/8	Unique	Win 209	Versalite			21.0 grs 8200 psi	24.0 grs 9400 psi
1 1/8	Unique	Win 209	Red PC			23.5 grs 9500 psi	24.5 grs 10000 psi
1 1/8	Unique	Win 209	Figure 8 & DRRF8			22.5 grs 8300 psi	24.0 grs 9000 psi
1 1/8	Unique	Win 209	RXP 12			22.0 grs 8700 psi	23.0 grs 9200 psi
1 1/8	Unique	Win 209	WAA 12 & DRA12 & DRXL 1 1/8			21.0 grs 9100 psi	23.5 grs 9400 psi
1 1/8	Unique	Win 209	WT 12 Orange			21.5 grs 9000 psi	22.5 grs 9500 psi
1 1/8	Unique	Win 209	Windjammer			22.5 grs 8200 psi	
1 1/8	Herco	Win 209	Versalite				24.5 grs 9200 psi
1 1/8	Herco	Win 209	Red PC				25.0 grs 9100 psi
1 1/8	Herco	Win 209	Figure 8 & DRRF8				25.0 grs 9100 psi
1 1/8	Herco	Win 209	RXP 12				25.0 grs 9200 psi
1 1/8	Herco	Win 209	WAA 12 & DRA12 & DRXL 1 1/8				25.0 grs 9500 psi
1 1/8	Herco	Win 209	WT 12 Orange				23.5 grs 9400 psi
			12 Gauge	1 1/4 Ounce L	_oads		
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Ve	elocity (fps) & Pro	essure (psi)
(oz)				1350 fps	1375 fps	1400 fps	1425 fps
1 1/4	Pro Reach	CCI 209M	CB 1138-12				30.0 grs 10800 psi
1 1/4	Pro Reach	Fed 209A	CB 1138-12	27.5 grs 9650 psi			29.5 grs 11080 psi
1 1/4	Pro Reach	Rem 209P	CB 1138-12	28.1 grs 9770 psi			30.0 grs 10540 psi

12 Gauge 2 3/4 Winchester AA Plastic Shells continued

	12 Gauge 1 1/4 Ounce Loads continued										
Shot	Powder	Primer	Wad	Charge We	ight (grains) / Ve	elocity (fps) & Pro	essure (psi)				
(oz)				1350 fps	1375 fps	1400 fps	1425 fps				
1 1/4	Pro Reach	Win 209	CB 1138-12	28.3 grs 9640 psi			31.0 grs 10380 psi				
1 1/4	Pro Reach	CCI 209M	WAAF114		28.9 grs 10190 psi						
1 1/4	Pro Reach	Win 209	WAAF114	28.3 grs 9810 psi							
1 1/4	Pro Reach	Cheddite	CB 1138-12	27.6 grs 9820 psi							
1 1/4	Pro Reach	Cheddite	WAAF114	28.0 grs 9490 psi							
1 1/4	Pro Reach	Win 209	CB 1138-12	28.0 grs 9,950 psi							
1 1/4	Pro Reach	Fed 209A	CB 1138-12		28.0 grs 10010 psi						
1 1/4	Pro Reach	CCI 209M	CB 1138-12	27.5 grs 10620 psi	-						
1 1/4	Pro Reach	Fed 209A	Fed 12S4	27.0 grs 11150 psi							
1 1/4	Pro Reach	Rem 209P	CB 1138-12	28.1 grs 9720 psi		29.5 grs 10540 psi					
1 1/4	Pro Reach	Win 209	RP 12	27.7 grs 9780 psi		29.0grs 10560 psi					
1 1/4	Pro Reach	Cheddite	WAAF114	28.1 grs 10180 psi		- coop is					
1 1/4	Pro Reach	Cheddite	CB 1138-12	27.6 fps 9820 psi							
1 1/4	Troncucii	Oncuarto	12 Gauge 1 1/4,		unca Loade						
Shot	Powder	Primer	Wad			elocity (fps) & Pro	essure (nsi)				
(oz)	1 0111101			1150 fps	1200 fps	1225 fps	1250 fps				
1 1/4	20/28	Win 209	SP 12	1100100	1200 100	1223 160	23.3 grs 9180 psi				
1 1/4	20/28	Rem 209P	SP 12				23.4 grs 9010 psi				
1 1/4	20/28	CCI 209M	SP 12				23.2 grs 9720 psi				
1 1/4	Unique	CCI 209M	WAA12F114			23.5 grs 9900 psi					
1 1/4	Unique	Fio 616	WAA12F114			23.0 grs 10300 psi					
1 1/4	Unique	Rem 209P	WAA12F114			24.0 grs 10000 psi					
1 1/4	Unique	Win 209	Versalite			24.0 grs 9800 psi					
1 1/4	Unique	Win 209	RP 12			22.5 grs 9500 psi					
1 1/4	Unique	Win 209	WAA12F114			23.5 grs 9900 psi					
1 1/4	Herco	CCI 209M	WAA12F114			24.0 grs 9100 psi					
1 1/4	Herco	Fio 616	WAA12F114			25.0 grs 9800 psi					
1 1/4	Herco	Rem 209P	WAA12F114			25.5 grs 8300 psi					
1 1/4	Herco	Win 209	CB 1138-12			25.0 grs 9600 psi					
1 1/4	Herco	Win 209	Versalite			25.5 grs 8500 psi					
1 1/4	Herco	Win 209	WAA12F114			25.0 grs 8400 psi					
1 3/8	Blue Dot	Win 209	RP 12		33.0 grs 10400 psi						
1 3/8	Blue Dot	Win 209	SP 12				34.5 grs 10300 psi				
1 3/8	Pro Reach	CCI 209M	CB 1138-12				26.2 fps 10910 psi				
1 3/8	Pro Reach	Win 209	RP 12				25.0 grs 10620 psi				

12 daug	12 Gauge 1 1/4, 1 3/8 & 1 1/2 Ounce Loads continued											
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)					
(oz)				1150 fps	1200 fps	1225 fps	1250 fps					
1 3/8	Pro Reach	Win 209	CB 1138-12				26.1 fps 10520 psi					
1 3/8	Pro Reach	Fed 209A	CB 1138-12			24.5 grs 10740 psi						
1 3/8	Pro Reach	Rem 209P	CB 1138-12				26.0 grs 10460 psi					
1 3/8	Pro Reach	Fed 209A	RP 12		23.8 grs 10760 psi							
1 3/8	Pro Reach	CCI 209M	CB 1138-12				26.5 grs 10580 psi					
1 1/2	Blue Dot	Win 209	RP 12	30.5 grs 10800 psi								
1 1/2	Blue Dot	Win 209	WAA12R	31.0 grs 10400 psi								
1 1/2	Blue Dot	Win 209	CB 1138-12		33.7 grs 10100 psi							
		12 GAUGE	2 3/4 INCH FEDER	AL® GOLD MED	AL® PLASTIC TA	ARGET SHELLS						
			12 Gauge 7,	/8 and 1 Ounce	Target Loads							
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)					
(oz)				1200 fps	1250 fps	1290 fps						
7/8	Clay Dot	Fed 209A	12SO & DRXXL Orange	17.5 grs 6042 psi	18.0 grs 6530 psi	19.0 grs 7310 psi						
7/8	Clay Dot	Fed 209A	CB 0178	18.0 grs 5804 psi	18.5 grs 6040 psi	19.5 grs 9110 psi						
7/8	Clay Dot	Fed 209A	CB 4100-12	18.0 grs 5744 psi	18.5 grs 6112 psi	19.0 grs 7780 psi						
7/8	e3	Fed 209A	12SO & DRXXL Orange	16.5 grs 6905 psi	17.5 grs 8095 psi	18.5 grs 8855 psi						
7/8	e3	Fed 209A	TGT 12 & DRRT12		17.0 grs 7095 psi	18.0 grs 7925 psi						
7/8	Red Dot	Fed 209A	CB 1100-12									
7/8	Red Dot	Fed 209A	Purple PC	17.0 grs 6400 psi	18.5 grs 7300 psi	19.5 grs 7900 psi						
7/8	Red Dot	Fed 209A	TGT 12 & DRRT12	17.5 grs 7100 psi	18.5 grs 7800 psi	19.5 grs 8500 psi						
7/8	Red Dot	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8000 psi	19.0 grs 8400 psi						
7/8	Red Dot	Fed 209A	WAA 12L (Gray)									
7/8	Red Dot	Fed 209A	12SO & DRXXL Orange		19.0 grs 7900 psi	19.5 grs 8400 psi						
7/8	American Select	Fed 209A	CB 1100-12			21.5 grs 6900 psi						
7/8	American Select	Fed 209A	12SO & DRXXL Orange			21.0 grs 7300 psi						
7/8	American Select	Fed 209A	Purple PC			21.5 grs 6900 psi						
7/8	American Select	Fed 209A	TGT 12 & DRRT12			21.0 grs 7400 psi						
7/8	Green Dot	Fed 209A	12SO & DRXXL Orange			22.0 grs 7500 psi						

12 Gauge 2 3/4 inch Federal Gold Medal Plastic Target Shells continued

	12 Gauge 7/8 and 1 Ounce Target Loads continued										
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pres	ssure (psi)				
(oz)				1200 fps	1250 fps	1290 fps					
7/8	Green Dot	Fed 209A	Purple PC			22.5 grs 7000 psi					
7/8	Green Dot	Fed 209A	TGT 12 & DRRT12			22.0 grs 7200 psi					
7/8	Green Dot	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1			21.5 grs 7600 psi					
7/8	Promo	Fed 209A	Purple PC	17.0 grs 6400 psi	18.5 grs 7300 psi	19.5 grs 7900 psi					
7/8	Promo	Fed 209A	TGT 12 & DRRT12	17.5 grs 7100 psi	18.5 grs 7800 psi	19.5 grs 8500 psi					
7/8	Promo	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8000 psi	19.0 grs 8400 psi					
7/8	Promo	Fed 209A	12SO & DRXXL Orange		19.0 grs 7900 psi	19.5 grs 8400 psi					
1	Clay Dot	Fed 209A	1280	17.9 grs 5870 psi	19.2 grs 6600 psi						
1	Clay Dot	Fed 209A	DRXXL Orange	18.0 grs 8820 psi							
1	Clay Dot	CCI 209	DRXXL Orange	18.0 grs 6770 psi							
1	Clay Dot	Win 209	DRXXL Orange	18.0 grs 7460 psi							
1	Clay Dot	RIO	DRXXL Orange	18.0 grs 6610 psi							
1	Clay Dot	Cheddite	DRXXL Orange	18.0 grs 7370 psi							
1	Clay Dot	Fiocchi 616	DRXXL Orange	18.0 grs 7490 psi							
1	Clay Dot	Rem 209P	DRXXL Orange	18.0 grs 7930 psi							
1	Clay Dot	CCI 209M	DRXXL Orange	18.0 grs 8690 psi							
1	Clay Dot	Rem 209P	TGT 12 & DRRT12	19.2 grs 6450 psi	20.2 grs 7320 psi						
1	Clay Dot	Win 209	WAA12SL & DRXL-1 & Jammer XL-1	18.2 grs 5910 psi	19.1 grs 6730 psi						
1	Clay Dot	Fed 209A	CB 6100-12	18.0 grs 6040 psi	19.0 grs 7170 psi	20.0 grs 7970 psi					
1	Clay Dot	CCI 209	CB 6100-12	17.5 grs 5960 psi							
1	American Select	Fed 209A	CB 6100-12	19.0 grs 5910 psi	20.5 grs 6790 psi	21.5 grs 7290 psi					
1	American Select	CCI 209	CB 6100-12	19.5 grs 5790 psi							
1	Green Dot	Fed 209A	CB 6100-12	19.5 grs 5980 psi	20.5 grs 6860 psi	22.0 grs 7230 psi					
1	e3	Fed 209A	Green Duster	16.5 grs 8310 psi	18.0 grs 9710 psi	18.5 grs 10035 psi					
1	e3	Fed 209A	TGT 12 & DRRT12	17.0 grs 8000 psi	18.0 grs 8840 psi	19.0 grs 9660 psi					
1	e3	Fed 209A	12SO & DRXXL Orange	17.5 grs 9040 psi	18.5 grs 9340 psi	19.5 grs 10070 psi					
1	e3	Fed 209A	CB 6100-12	16.5 grs 6780 psi							
1	e3	CCI 209	CB 6100-12	16.5 grs 6290 psi	18.0 grs 7270 psi	18.5 grs 7470 psi					
1	Red Dot	Fed 209A	12SO & DRXXL Orange	18.0 grs 8300 psi	19.5 grs 9300 psi	20.5 grs 10300 psi					
1	Red Dot	Fed 209A	Purple PC	18.0 grs 7400 psi	19.5 grs 8700 psi	20.5 grs 9300 psi					
1	Red Dot	Fed 209A	TGT 12 & DRRT12	18.0 grs 7900 psi	19.0 grs 8700 psi	20.0 grs 9100 psi					

			12 Gauge 7/8 ar	ıd 1 Ounce T <u>arg</u>	et Loads continu	ed	
Shot	Powder	Primer	Wad			elocity (fps) & Pre	ssure (psi)
(oz)				1200 fps	1250 fps	1290 fps	
1	Red Dot	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8700 psi	18.5 grs 9100 psi	20.0 grs 10300 psi	
1	Red Dot	CCI 209	CB 6100-12	18.0 grs 6430 psi			
1	Red Dot	Fed 209A	CB 6100-12	18.0 grs 6550 psi	19.0 grs 6790 psi	20.0 grs 7910 psi	
1	American Select	Fed 209A	CB 1100-12	20.0 grs 7300 psi	21.0 grs 7600 psi	21.5 grs 8000 psi	
1	American Select	Fed 209A	12SO & DRXXL Orange	19.5 grs 7100 psi	21.0 grs 7700 psi	22.0 grs 8500 psi	
1	American Select	Fed 209A	TGT 12 & DRRT12	19.5 grs 7500 psi	20.5 grs 8100 psi	21.5 grs 8800 psi	
1	American Select	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	19.5 grs 7200 psi	21.0 grs 8400 psi	21.5 grs 8800 psi	
1	Green Dot	Fed 209A	12SO & DRXXL Orange	20.5 grs 7600 psi	21.5 grs 8600 psi	22.5 grs 8700 psi	
1	Green Dot	Fed 209A	Purple PC	20.5 grs 7300 psi	21.5 grs 8000 psi	22.5 grs 8300 psi	
1	Green Dot	Fed 209A	TGT 12 & DRRT12	20.0 grs 7000 psi	21.5 grs 7900 psi	22.5 grs 8500 psi	
1	Green Dot	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	20.0 grs 7800 psi	21.5 grs 8500 psi	22.5 grs 9000 psi	
1	Green Dot	CCI 209	CB 6100-12	19.5 grs 6190 psi			
1	Promo	Fed 209A	12SO & DRXXL Orange	18.0 grs 8300 psi	19.5 grs 9300 psi	20.5 grs 10300 psi	
1	Promo	Fed 209A	Purple PC	18.0 grs 7400 psi	19.5 grs 8700 psi	20.5 grs 9300 psi	
1	Promo	Fed 209A	TGT 12 & DRRT12	18.0 grs 7900 psi	19.0 grs 8700 psi	20.0 grs 9100 psi	
1	Promo	Fed 209A	WAA12SL&DRXL- 1&Jammer XL-1	18.0 grs 8700 psi	18.5 grs 9100 psi	20.0 grs 10300 psi	
			12 Ga	uge 1 1/8 Ounce	e Loads		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / V e	elocity (fps) & Pre	ssure (psi)
				1090 fps	1145 fps	1200 fps	1250 fps
1 1/8	Clay Dot	Fed 209A	12S3 & DRF3		17.1 grs 7590 psi	19.0 grs 8750 psi	
1 1/8	Clay Dot	Fed 209A	WAA12		17.0 grs 7680 psi	18.5 grs 8970 psi	
1 1/8	Clay Dot	Rem 209P	Figure 8 & DRRF8		17.8 grs 6640 psi		18.9 grs 9870 psi
1 1/8	Clay Dot	Fed 209A	CB 6118-12	16.5 grs 6710 psi	18.0 grs 7870 psi	19.0 grs 9540 psi	
1 1/8	e3	Fed 209A	CB 6118-12	15.0 grs 7070 psi	16.5 grs 8100 psi	17.5 grs 8940 psi	
1 1/8	e3	Fed 209A	CB 3118-12AR	15.5 grs 8210 psi	16.5 grs 8960 psi	17.8 grs 9990 psi	
1 1/8	e3	Fed 209A	CB 4118	15.5 grs 7860 psi	16.5 grs 8365 psi	18.0 grs 9525 psi	
1 1/8	e3	Fed 209A	Figure 8 & DRRF8	15.5 grs 7930 psi	17.0 grs 8875 psi	18.0 grs 9900 psi	
1 1/8	e3	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	15.5 grs 8290 psi	16.5 grs 8980 psi	18.0 grs 10470 psi	
1 1/8	e3	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	15.5 grs 8485 psi	16.5 grs 9215 psi	18.0 grs 10755 psi	
1 1/8	e3	Fed 209A	12S3 & DRF3 & DRXXL Orange	15.5 grs 8580 psi	17.0 grs 9260 psi	18.0 grs 10660 psi	

12 Gauge 2 3/4 inch Federal Gold Medal Plastic Target Shells continued

			12 Ga	uge 1 1/8 Ounc	e Loads continue	d		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (ps	si)
				1090 fps	1145 fps	1200 fps	1250	fps
1 1/8	e3	Fed 209A	Blue Duster	15.5 grs 8655 psi	16.5 grs 9520 psi	18.0 grs 10550 psi		
1 1/8	American Select	Fed 209A	CB 6118-12	18.5 grs 5330 psi	20.0 grs 6110 psi	20.5 grs 7640 psi		
1 1/8	American Select	Fed 209A	CB 3118-12	17.5 grs 7100 psi	19.0 grs 8200 psi	20.5 grs 9600 psi	22.0 grs	10600 psi
1 1/8	American Select	Fed 209A	12S3 & DRF3	17.5 grs 7100 psi	19.0 grs 7600 psi	20.5 grs 9200 psi	22.0 grs	10100 psi
1 1/8	American Select	Fed 209A	Versalite	17.0 grs 8100 psi	18.5 grs 9600 psi	20.0 grs 10900 psi	21.0 grs	10900 psi
1 1/8	American Select	Fed 209A	Figure 8 & DRRF8	17.5 grs 8000 psi	19.0 grs 9000 psi	20.0 grs 10300 psi		
1 1/8	American Select	Fed 209A	WAA 12 & DRA12 & DRXL1 1/8	17.5 grs 7400 psi	19.0 grs 9600 psi	20.5 grs 9400 psi		
1 1/8	American Select	Fed 209A	WT 12 (Orange)	18.0 grs 7700 psi	19.0 grs 9300 psi	20.5 grs 10400 psi		
1 1/8	American Select	Fed 209A	Windjammer		19.0 grs 8700 psi	20.5 grs 9800 psi	21.5 grs	10700 ps
1 1/8	American Select	Rem 209P	12S3 & DRF3		19.5 grs 7800 psi	21.5 grs 9000 psi		
1 1/8	American Select	Win 209	12S3 & DRF3		19.5 grs 8100 psi	20.5 grs 9900 psi		
1 1/8	Red Dot	Fed 209A	CB 6118-12	16.5 grs 7290 psi	17.5 grs 8140 psi	18.5 grs 8690 psi		
1 1/8	Red Dot	CCI 209	12S3 & DRF3		18.0 grs 8200 psi	20.0 grs 9800 psi		
1 1/8	Red Dot	CCI 209M	12S3 & DRF3	17.0 grs 8300 psi	18.0 grs 8600 psi	19.0 grs 8900 psi		
1 1/8	Red Dot	Fed 209A	12S3 & DRF3	17.0 grs 8400 psi	18.0 grs 8800 psi	19.5 grs 10000 psi		
1 1/8	Red Dot	Fed 209A	Versalite	17.0 grs 8600 psi	18.0 grs 9400 psi	19.0 grs 10100 psi	20.0 grs	10700 psi
1 1/8	Red Dot	Fed 209A	Figure 8 & DRRF8	17.0 grs 7700 psi	18.0 grs 8800 psi	19.0 grs 9500 psi	20.0 grs	9500 psi
1 1/8	Red Dot	Fed 209A	RXP 12		18.0 grs 9400 psi	19.0 grs 9900 psi	20.0 grs	10100 psi
1 1/8	Red Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	16.5 grs 8500 psi	17.5 grs 9400 psi	19.0 grs 10400 psi		
1 1/8	Red Dot	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 8100 psi	18.0 grs 9200 psi	19.0 grs 10000 psi		
1 1/8	Red Dot	Fed 209A	WT 12 (Orange)		18.5 grs 9300 psi	20.0 grs 10400 psi		
1 1/8	Red Dot	Fed 209A	Windjammer	17.5 grs 7600 psi	18.5 grs 8200 psi	19.5 grs 9600 psi	20.5 grs	9500 psi
1 1/8	Red Dot	FIO 616	12S3 & DRF3	17.5 grs 8200 psi				
1 1/8	Red Dot	Win 209	12S3 & DRF3	17.0 grs 8400 psi	17.5 grs 9600 psi	19.0 grs 10500 psi		
1 1/8	Red Dot	Rem 209P	12S3 & DRF3		18.5 grs 8200 psi	19.5 grs 9300 psi		
1 1/8	Green Dot	Fed 209A	CB 6118-12	18.0 grs 6900 psi	19.5 grs 7220 psi	20.5 grs 7800 psi		
1 1/8	Green Dot	Fed 209A	12S3 & DRF3	18.5 grs 7800 psi	19.5 grs 8100 psi	20.0 grs 9000 psi	21.5 grs	9500 psi
1 1/8	Green Dot	Fed 209A	Versalite	18.0 grs 7200 psi	19.0 grs 8000 psi	20.5 grs 9400 psi	21.5 grs	

Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi)		12 Gauge 1 1/8 Ounce Loads continued										
11/8 Green Dot	Shot	Powder	Primer	Wad	Charge We	eight (grains) / V e	elocity (fps) & Pre	ssure (psi)				
11/8 Green Dot Fed 209A RXP 12 19.0 grs 8000 psi 20.0 grs 8000 psi 21.5 grs 9700 psi 11/8 Green Dot Fed 209A WAA12 & DRA12 & DRA					1090 fps	1145 fps	1200 fps	1250 fps				
11/8 Green Dot Fed 209A WAA 12 & DRA12 & DRXL 1/8 Green Dot Fed 209A WAA 12 & DRXL 1/8 WAA 12 & DRXL 1/8 Jammer XL-1 18.0 grs 7600 psi 19.0 grs 8200 psi 20.0 grs 8200 psi 21.5 grs 9400 psi 21.5 grs 9400 psi 21.5 grs 9400 psi 21.6 grs 8200 psi 22.5 grs 8400 psi 21.6 grs 8200 psi 22.5 grs 8400 psi 21.6 grs 8200 psi 22.5 grs 8400 psi 22.5 grs	1 1/8	Green Dot	Fed 209A	Figure 8 & DRRF8	18.0 grs 7000 psi	19.0 grs 7700 psi	20.0 grs 8600 psi	22.0 grs 9200 psi				
17.8 Green Dot	1 1/8	Green Dot	Fed 209A	RXP 12		19.0 grs 8000 psi	20.0 grs 8800 psi	21.5 grs 9700 psi				
11/8 Green Dot Fed 209A & Jammer XL-1 18.0 grs /600 psi 20.0 grs 8400 psi 21.5 grs 8400 psi 11/8 Green Dot Fed 209A Windjammer 18.5 grs 6600 psi 19.5 grs 7700 psi 21.0 grs 8200 psi 22.5 grs 8400 psi 11/8 Green Dot CCI 209 12S3 & DRF3 19.5 grs 7800 psi 22.0 grs 8200 psi 22.5 grs 8400 psi 11/8 Green Dot CCI 209M 12S3 & DRF3 19.5 grs 7800 psi 20.5 grs 9000 psi 22.5 grs 9000 psi 11/8 Green Dot Rem 209P 12S3 & DRF3 20.5 grs 6800 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 11/8 Unique CCI 209M 12S3 & DRF3 20.5 grs 6800 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A Versalite 22.5 grs 7300 psi 22.5 grs 7300 psi 22.5 grs 8000 psi 11/8 Unique Fed 209A Figure 8 & DRF8 22.5 grs 7300 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 22.5 grs 8000 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 23.5 grs 8000 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 8000 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 8000 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 8000 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 7700 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 7700 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 8000 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 8000 psi 24.0 grs 8000 psi 11/8 Herco Fed 209A Versalite 26.0 grs 8000 psi 24.0 grs 8000 psi 24.0 grs 8000 psi 11/8 Herco Fed 209A Versalite 26.0 grs 8000 psi 26.	1 1/8	Green Dot	Fed 209A		18.0 grs 7700 psi	19.0 grs 8200 psi	20.0 grs 9200 psi	21.5 grs 9400 psi				
11/8 Green Dot Fed 209A Windjammer 18.5 grs 6600 psi 19.5 grs 7700 psi 21.0 grs 8200 psi 22.5 grs 8400 psi 11/8 Green Dot CCI 209 12.53 & DRF3 19.5 grs 7500 psi 22.0 grs 9200 psi 22.5 grs 9800 psi 11/8 Green Dot CCI 209M 12.53 & DRF3 19.5 grs 8000 psi 20.5 grs 9000 psi 22.5 grs 10500 psi 11/8 Green Dot Green Born Dot Green Born Dot Green Dot Green Born Dot	1 1/8	Green Dot	Fed 209A		18.0 grs 7600 psi	19.0 grs 8200 psi	20.0 grs 8800 psi					
11/8 Green Dot CCI 209 12S3 & DRF3 19.0 grs 7800 psi 22.0 grs 9200 psi 11/8 Green Dot CCI 209M 12S3 & DRF3 19.5 grs 7500 psi 21.0 grs 8600 psi 22.5 grs 9800 psi 11/8 Green Dot Win 209 12S3 & DRF3 19.5 grs 8000 psi 20.5 grs 9000 psi 22.5 grs 10500 psi 11/8 Unique CCI 209 12S3 & DRF3 20.5 grs 6800 psi 21.5 grs 7900 psi 23.0 grs 8800 psi 11/8 Unique CCI 209 12S3 & DRF3 20.5 grs 6800 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A 12S3 & DRF3 22.5 grs 7300 psi 23.5 grs 8100 psi 23.5 grs 8100 psi 11/8 Unique Fed 209A Versalite 22.0 grs 8000 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A Figure 8 & DRRF8 22.5 grs 7300 psi 23.5 grs 8400 psi 11/8 Unique Fed 209A WAA 12 & DRA12 & DRAL1 11/8 Unique Fed 209A WT 12 (Orange) 23.5 grs 8300 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A WT 12 (Orange) 22.5 grs 8000 psi 24.0 grs 8000 psi 24.0 grs 8000 psi 11/8 Unique Fed 209A WT 12 (Orange) 22.5 grs 8000 psi 23.5 grs 8000 psi 24.0 grs 9800 psi 11/8 Unique Fed 209A WT 12 (Orange) 22.5 grs 6000 psi 24.0 grs 9800 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 6000 psi 24.0 grs 9800 psi 11/8 Unique Fed 209A ZS3 & DRF3 23.0 grs 8000 psi 24.0 grs 9800 psi 11/8 Herco Fed 209A Ergure 8 & DRRF3 24.0 grs 6900 psi 24.0 grs 9800 psi 11/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 8000 psi 24.0 grs 6900 psi 26.0 grs 8000 psi 26.0 grs 8000 psi 26.0 grs 8000 psi 27.0 grs 97.0 psi 27.0 grs 97.0 grs	1 1/8	Green Dot	Fed 209A	WT 12 (Orange)		20.0 grs 8400 psi	21.5 grs 8800 psi					
11/8 Green Dot CCI 209M 12S3 & DRF3 19.5 grs 7500 psi 21.0 grs 8600 psi 22.5 grs 9800 psi 11/8 Green Dot Win 209 12S3 & DRF3 19.5 grs 8000 psi 20.5 grs 9000 psi 22.5 grs 10500 psi 11/8 Green Dot Rem 209P 12S3 & DRF3 20.5 grs 6800 psi 21.5 grs 7900 psi 23.0 grs 8800 psi 11/8 Unique CCI 209 12S3 & DRF3 20.5 grs 6800 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A 12S3 & DRF3 22.5 grs 7300 psi 23.5 grs 8000 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A Versalite 22.0 grs 8000 psi 24.0 grs 8300 psi 23.5 grs 8400 psi 23.5 grs 8400 psi 23.5 grs 8400 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 24.0 grs 8400 psi 24.0 grs 840	1 1/8	Green Dot	Fed 209A	Windjammer	18.5 grs 6600 psi	19.5 grs 7700 psi	21.0 grs 8200 psi	22.5 grs 8400 psi				
11/8 Green Dot Win 209 12S3 & DRF3 19.5 grs 8000 psi 22.5 grs 10500 psi 17/8 Green Dot Rem 209P 12S3 & DRF3 20.5 grs 6800 psi 21.5 grs 7900 psi 23.0 grs 8800 psi 11/8 Unique CCI 209 12S3 & DRF3 22.5 grs 8000 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A 12S3 & DRF3 22.5 grs 7300 psi 23.5 grs 8100 psi 11/8 Unique Fed 209A Versalite 22.0 grs 8000 psi 24.0 grs 8300 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A RXP 12 22.5 grs 7300 psi 23.5 grs 8100 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A RXP 12 22.5 grs 7300 psi 23.5 grs 8400 psi 11/8 Unique Fed 209A RXP 12 22.5 grs 7800 psi 23.5 grs 8400 psi 11/8 Unique Fed 209A WT 12 (Orange) 23.5 grs 8400 psi 23.0 grs 8400 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 6900 psi 24.0 grs 7700 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 6900 psi 24.0 grs 7700 psi 11/8 Unique Rem 209P 12S3 & DRF3 24.0 grs 6900 psi 24.0 grs 6900 psi 25.0 grs 7600 psi 11/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8200 psi 11/8 Herco Fed 209A RXP 12 RX	1 1/8	Green Dot	CCI 209	12S3 & DRF3		19.0 grs 7800 psi	22.0 grs 9200 psi					
11/8 Green Dot Rem 209P 12S3 & DRF3 20.5 grs 6800 psi 21.5 grs 7900 psi 23.0 grs 8800 psi 11/8 Unique CCI 209 12S3 & DRF3 23.5 grs 8000 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A 12S3 & DRF3 22.5 grs 7300 psi 23.5 grs 8000 psi 11/8 Unique Fed 209A Versalite 22.0 grs 8000 psi 24.0 grs 8300 psi 11/8 Unique Fed 209A Figure 8 & DRRF8 22.5 grs 7300 psi 23.5 grs 8000 psi 11/8 Unique Fed 209A RXP 12 22.5 grs 7800 psi 23.5 grs 8400 psi 11/8 Unique Fed 209A WT 12 (Orange) 23.5 grs 8400 psi 23.5 grs 8400 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 6900 psi 24.0 grs 7700 psi 11/8 Unique Fed 209A Windjammer 22.5 grs 6900 psi 24.0 grs 7700 psi 11/8 Unique Rem 209P 12S3 & DRF3 23.0 grs 8600 psi 24.0 grs 7000 psi 11/8 Herco Fed 209A Versalite 22.5 grs 6900 psi 24.0 grs 7000 psi 11/8 Herco Fed 209A Fed 209A Figure 8 & DRRF8 23.0 grs 8000 psi 24.0 grs 7000 psi 11/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7000 psi 24.0 grs 6900 psi 25.0 grs 7600 psi 11/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7000 psi 1350 fps 1450 fps 1550 fps 11/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 11/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 8000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 8000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 8000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 8000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209A Windjammer 26.0 grs 7000 psi 11/8 Herco Fed 209	1 1/8	Green Dot	CCI 209M	12S3 & DRF3		19.5 grs 7500 psi	21.0 grs 8600 psi	22.5 grs 9800 psi				
11/8	1 1/8	Green Dot	Win 209	12S3 & DRF3		19.5 grs 8000 psi	20.5 grs 9000 psi	22.5 grs 10500 ps				
1 1/8	1 1/8	Green Dot	Rem 209P	12S3 & DRF3		20.5 grs 6800 psi	21.5 grs 7900 psi	23.0 grs 8800 psi				
1 1/8	1 1/8	Unique	CCI 209	12S3 & DRF3			24.0 grs 8300 psi					
1 1/8	1 1/8	Unique	CCI 209M	12S3 & DRF3			23.5 grs 8000 psi	24.0 grs 9100 psi				
1 1/8	1 1/8	Unique	Fed 209A	12S3 & DRF3			22.5 grs 7300 psi	23.5 grs 8100 psi				
1 1/8	1 1/8	Unique	Fed 209A	Versalite			22.0 grs 8000 psi	24.0 grs 8300 psi				
1 1/8 Unique Fed 209A WAA 12 & DRA12 & DRA12 & DRA12 & DRAL 1 1/8 22.5 grs 8100 psi 23.0 grs 8400 psi 1 1/8 Unique Fed 209A WT 12 (Orange) 23.5 grs 8300 psi 24.0 grs 7700 psi 1 1/8 Unique Fed 209A Windjammer 22.5 grs 6900 psi 24.0 grs 7700 psi 1 1/8 Unique Win 209 12S3 & DRF3 23.0 grs 8600 psi 24.0 grs 9800 psi 1 1/8 Unique Rem 209P 12S3 & DRF3 24.0 grs 6900 psi 25.0 grs 7600 psi 1 1/8 Herco Fed 209A 12S3 & DRF3 26.0 grs 8000 psi 26.0 grs 8000 psi Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) 1250 fps 1350 fps 1450 fps 1550 fps 1 1/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 8200 psi 26.0 grs 8200 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 26.0 grs 8000 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12	1 1/8	Unique	Fed 209A	Figure 8 & DRRF8			22.5 grs 7300 psi	23.5 grs 7800 psi				
1 1/8	1 1/8	Unique	Fed 209A	RXP 12			22.5 grs 7800 psi	23.5 grs 8400 psi				
1 1/8 Unique Fed 209A Windjammer 22.5 grs 6900 psi 24.0 grs 7700 psi 1 1/8 Unique Win 209 12S3 & DRF3 23.0 grs 8600 psi 24.0 grs 9800 psi 1 1/8 Unique Rem 209P 12S3 & DRF3 24.0 grs 6900 psi 25.0 grs 7600 psi 1 1/8 Herco Fed 209A 12S3 & DRF3 26.0 grs 8000 psi 25.0 grs 8000 psi 12 Gauge 1 1/8 Ounce Loads continued Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) 1 1/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 7700 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 &	1 1/8	Unique	Fed 209A				22.5 grs 8100 psi	23.0 grs 8400 psi				
1 1/8 Unique Win 209 12S3 & DRF3 23.0 grs 8600 psi 24.0 grs 9800 psi 1 1/8 Unique Rem 209P 12S3 & DRF3 24.0 grs 6900 psi 25.0 grs 7600 psi 1 1/8 Herco Fed 209A 12S3 & DRF3 26.0 grs 8000 psi 1 2 Gauge 1 1/8 Ounce Loads continued Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) 1 1/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 1 1/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7700 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	1 1/8	Unique	Fed 209A	WT 12 (Orange)			23.5 grs 8300 psi					
1 1/8 Unique Rem 209P 12S3 & DRF3 24.0 grs 6900 psi 25.0 grs 7600 psi 1 1/8 Herco Fed 209A 12S3 & DRF3 26.0 grs 8000 psi 12 Gauge 1 1/8 Ounce Loads continued Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) 1 1/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 1450 fps 1550 fps 1 1/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7700 psi 11/8 11/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 26.0 grs 8000 psi 26.0 grs 8000 psi 26.0 grs 8000 psi 35.2 grs 10330 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 35.2 grs 10330 psi	1 1/8	Unique	Fed 209A	Windjammer			22.5 grs 6900 psi	24.0 grs 7700 psi				
1 1/8 Herco Fed 209A 12S3 & DRF3 26.0 grs 8000 psi	1 1/8	Unique	Win 209	12S3 & DRF3			23.0 grs 8600 psi	24.0 grs 9800 psi				
Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi)	1 1/8	Unique	Rem 209P	12S3 & DRF3			24.0 grs 6900 psi	25.0 grs 7600 psi				
Shot Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi) 1 250 fps 1 350 fps 1 450 fps 1 550 fps 1 1/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 1 700 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 1 700 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 700 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 35.2 grs 10330 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	1 1/8	Herco	Fed 209A	12S3 & DRF3				26.0 grs 8000 psi				
1250 fps 1350 fps 1450 fps 1 1/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 1 1/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7700 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi				12 G a	uge 1 1/8 Ounc	e Loads continue	d					
1 1/8 Herco Fed 209A Versalite 26.0 grs 8200 psi 1 1/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7700 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	Shot	Powder	Primer	Wad	Charge We	eight (grains) / V e	elocity (fps) & Pre	ssure (psi)				
1 1/8 Herco Fed 209A Figure 8 & DRRF8 26.0 grs 7700 psi 1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi					1250 fps	1350 fps	1450 fps	1550 fps				
1 1/8 Herco Fed 209A RXP 12 26.0 grs 8000 psi 1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	1 1/8	Herco	Fed 209A	Versalite	26.0 grs 8200 psi							
1 1/8 Herco Fed 209A WAA 12 & DRA12 & DRA12 & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	1 1/8	Herco	Fed 209A	Figure 8 & DRRF8	26.0 grs 7700 psi							
1 1/8 Herco Fed 209A & DRXL 1 1/8 26.0 grs 8300 psi 1 1/8 Herco Fed 209A Windjammer 26.0 grs 7400 psi 1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	1 1/8	Herco	Fed 209A	RXP 12	26.0 grs 8000 psi							
1 1/8 Pro Reach CCI-209M Fed 12S3 35.2 grs 10330 psi	1 1/8	Herco	Fed 209A		26.0 grs 8300 psi							
	1 1/8	Herco	Fed 209A	Windjammer	26.0 grs 7400 psi							
1 1/8 Pro Reach Rem 209P Fed 12S3 35.0 grs 10270 psi	1 1/8	Pro Reach	CCI-209M	Fed 12S3				35.2 grs 10330 ps				
	1 1/8	Pro Reach	Rem 209P	Fed 12S3				35.0 grs 10270 ps				

12 Gauge 2 3/4 inch Federal Gold Medal Plastic Target Shells continued

			12 Ga	uge 1 1/4 Ounce	Loads		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
				1200 fps	1225 fps	1425 fps	1450 fps
1 1/4	Pro Reach	CCI 209M	12S4			30.5 grs 10,860 psi	
1 1/4	Pro Reach	CCI 209M	WAA 12F114				32.5 grs 11120 psi
1 1/4	Pro Reach	Fed 209A	WAA 12F114			30.5 grs 11,190 psi	
1 1/4	Pro Reach	Fed 209A	12S4			30.0 grs 11,010 psi	
1 1/4	Unique	CCI 209M	12S4		24.5 grs 9500 psi		
1 1/4	Unique	Fed 209A	12S4		24.0 grs 10500 psi		
1 1/4	Unique	Fed 209A	SP 12		24.0 grs 10400 psi		
1 1/4	Unique	Fed 209A	WAA 12F114		24.0 grs 10600 psi		
1 1/4	Unique	Win 209	12S4		24.0 grs 9500 psi		
1 1/4	Unique	Rem 209P	12S4		25.0 grs 9800 psi		
1 1/4	Herco	CCI 209M	12S4		25.5 grs 8700 psi		
1 1/4	Herco	Fed 209A	12S4		25.0 grs 10200 psi		
1 1/4	Herco	Fed 209A	SP 12		26.0 grs 9700 psi		
1 1/4	Herco	Fed 209A	WAA 12F114		25.0 grs 10100 psi		
1 1/4	Herco	Win 209	12S4		25.5 grs 9400 psi		
1 1/4	Herco	Rem 209P	12S4		25.5 grs 8100 psi		
1 1/4	Blue Dot	CCI 209M	RP 12	34.0 grs 9400 psi			
1 1/4	Blue Dot	Fed 209A	RP 12	34.0 grs 9700 psi			
1 1/4	Blue Dot	CCI 209M	RP 12	35.5 grs 8100 psi			
1 1/4	Blue Dot	Fed 209A	RP 12	34.5 grs 9900 psi			
			12 Gauge	1 3/8 & 1 1/2 Ou	nce Loads		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
				1150 fps	1200 fps	1225 fps	1250 fps
1 3/8	Blue Dot	CCI 209M	RP 12				35.0 grs 8600 psi
1 3/8	Blue Dot	Fed 209A	RP 12				34.0 grs 9900 psi
1 3/8	Blue Dot	Rem 209P	RP 12				36.0 grs 7800 psi
1 3/8	Blue Dot	Win 209	RP 12				34.5 grs 8600 psi
1 1/2	Herco	Fed 209A	RP 12	25.5 grs 10100 psi			
1 1/2	Blue Dot	Fed 209A	RP 12	33.5 grs 8300 psi			

		12 GAUG	E 2 3/4 INCH FEDE	RAL® GOLD ME	DAL® PAPER TA	RGET SHELLS	
			12 Gauge 7	/8 and 1 Ounce	Target Loads		
Shot	Powder	Primer	Wad	Charge	Weight (grains) / V	elocity (fps) & Pres	sure (psi)
(oz)				1200 fps	1250 fps	1300 fps	
7/8	Red Dot	Fed 209A	CB 0178	17.5 grs 6028 psi	18.5 grs 6570 psi	19.5 grs 7196 psi	
7/8	Clay Dot	Fed 209A	12SO & DRXXL Orange	17.5 grs 6400 psi	18.5 grs 6900 psi	19.5 grs 7390 psi	
7/8	e3	Fed 209A	CB 4100-12B	16.5 grs 6280 psi	17.5 grs 7075 psi	18.5 grs 7400 psi	
7/8	e3	Fed 209A	WAA12SL & DRXL-1 & Jammer XL-1	16.5 grs 6960 psi	17.5 grs 7345 psi	18.5 grs 8230 psi	
1	Clay Dot	Fed 209A	12SO & DRXXL Orange	18.0 grs 6770 psi	19.5 grs 8580 psi		
1	Clay Dot	Fed 209A	CB 6100-12	18.5 grs 8610 psi	19.5 grs 8240 psi	20.5 grs 9210 psi	
1	e3	Fed 209A	12SO & DRXXL Orange	17.5 grs 8535 psi	18.5 grs 10065 psi	19.5 grs 10630 psi	
1	e3	Fed 209A	CB 6100-12	17.0 grs 7520 psi	18.0 grs 7960 psi	19.0 grs 8820 psi	
1	Red Dot	CCI 209M	12S3 & DRF3			21.0 grs 8700 psi	
1	Red Dot	Fed 209A	12S3 & DRF3			20.5 grs 9000 psi	
1	Red Dot	Fed 209A	CB 6100-12	18.0 grs 7680 psi	19.0 grs 8410 psi	20.5 grs 8730 psi	
1	Red Dot	Fed 209A	12SO & DRXXL Orange			20.5 grs 10400 psi	
1	Red Dot	Fed 209A	Rem R12L			20.0 grs 9300 psi	
1	American Select	Fed 209A	CB 6100-12	19.5 grs 6510 psi	21.0 grs 7290 psi	21.5 grs 7930 psi	
1	Promo	CCI 209M	12S3 & DRF3			21.0 grs 8700 psi	
1	Promo	Fed 209A	12S3 & DRF3			20.5 grs 9000 psi	
1	Promo	Fed 209A	CB 6100-12	18.0 grs 7680 psi	19.0 grs 8410 psi	20.5 grs 8730 psi	
1	Promo	Fed 209A	12SO & DRXXL Orange			20.5 grs 10400 psi	
1	Promo	Fed 209A	Rem R12L			20.0 grs 9300 psi	
1	Green Dot	CCI 209M	12S3 & DRF3			23.0 grs 7800 psi	
1	Green Dot	Fed 209A	12S3 & DRF3			23.5 grs 9400 psi	
1	Green Dot	Fed 209A	12SO & DRXXL Orange			22.5 grs 9200 psi	
1	Green Dot	Fed 209A	Rem R12L			21.5 grs 8800 psi	
1	Green Dot	Fed 209A	CB 6100-12	20.5 grs 6850 psi	22.0 grs 7240 psi		
			12 Gauge 1 1/8,	1 1/4, 1 3/8 & 1	1/2 Ounce Load	ls	
Shot	Powder	Primer	Wad	Charge	Weight (grains) / V	elocity (fps) & Pres	sure (psi)
(oz)				1145 fps	1200 fps	1235 fps	1250 fps
1 1/8	Clay Dot	Fed 209A	12S3 & DRF3	18.0 grs 9160 psi	19.5 grs 9750 psi		
1 1/8	Clay Dot	Fed 209A	CB 6118-12	18.0 grs 7390 psi	19.0 grs 8690 psi		20.5 grs 10390 psi
1 1/8	e3	Fed 209A	CB 4118-12B	17.0 grs 9385 psi	18.5 grs 9860 psi		

14 continued

12 Gauge 2 3/4 inch Federal Gold Medal Paper Target Shells continued

	12 Gauge 1 1/8, 1 1/4, 1 3/8 & 1 1/2 Ounce Loads continued										
Shot	Powder	Primer	Wad	Charge '	Weight (grains) / Ve	locity (fps) & Pres	sure (psi)				
(oz)				1145 fps	1200 fps	1235 fps	1250 fps				
1 1/8	e3	Fed 209A	CB 3118-12AR	16.5 grs 9375 psi	18.0 grs 10430 psi						
1 1/8	e3	Fed 209A	Figure 8 & DRRF8	17.0 grs 8765 psi	18.0 grs 9640 psi						
1 1/8	e3	Fed 209A	RXP 12	17.0 grs 9280 psi	18.0 grs 10320 psi						
1 1/8	e3	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 9815 psi	18.0 grs 10780 psi						
1 1/8	e3	Fed 209A	CB 6118-12	17.0 grs 8500 psi	18.0 grs 9200 psi		19.0 grs 10410 ps				
1 1/8	e3	Fed 209A	12S3 & DRF3	17.0 grs 9640 psi	18.5 grs 10955 psi						
1 1/8	Red Dot	Fed 209A	12S3 & DRF3	18.0 grs 8800 psi	19.0 grs 8900 psi		20.5 grs 9900 psi				
1 1/8	Red Dot	Fed 209A	Red PC	18.0 grs 8300 psi	19.0 grs 10300 psi		20.5 grs 10700 ps				
1 1/8	Red Dot	Fed 209A	Rem R12L	18.5 grs 9300 psi	19.5 grs 9500 psi						
1 1/8	Red Dot	Fed 209A	RXP 12	18.0 grs 8900 psi	19.0 grs 9900 psi		21.0 grs 10000 ps				
1 1/8	Red Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	18.0 grs 8600 psi	19.0 grs 10500 psi						
1 1/8	Red Dot	Fed 209A	Windjammer	18.5 grs 8200 psi	19.0 grs 8700 psi						
1 1/8	Red Dot	Fed 209A	CB 6118-12	18.0 grs 8550 psi	19.0 grs 9160 psi		20.0 grs 9910 psi				
1 1/8	Green Dot	Fed 209A	12S3 & DRF3	18.5 grs 7400 psi	21.0 grs 7800 psi		23.0 grs 9100 psi				
1 1/8	Green Dot	Fed 209A	Versalite	19.5 grs 6900 psi	21.0 grs 8300 psi		22.5 grs 8500 psi				
1 1/8	Green Dot	Fed 209A	Red PC	20.0 grs 7600 psi	21.0 grs 8800 psi		22.5 grs 9600 psi				
1 1/8	Green Dot	Fed 209A	Rem R12L	19.0 grs 8000 psi	20.0 grs 8600 psi						
1 1/8	Green Dot	Fed 209A	RXP 12	18.5 grs 8100 psi	20.0 grs 8600 psi		21.5 grs 9300 psi				
1 1/8	Green Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	18.5 grs 8000 psi	19.5 grs 9000 psi		21.5 grs 10500 ps				
1 1/8	Green Dot	Fed 209A	Windjammer	20.5 grs 6600 psi	22.0 grs 7700 psi						
1 1/8	Green Dot	Fed 209A	CB 6118-12	20.0 grs 7380 psi	21.0 grs 7810 psi		22.5 grs 8840 psi				
1 1/8	Promo	Fed 209A	12S3 & DRF3	18.0 grs 8800 psi	19.0 grs 8900 psi		20.5 grs 9900 psi				
1 1/8	Promo	Fed 209A	Red PC	18.0 grs 8300 psi	19.0 grs 10300 psi		20.5 grs 10700 ps				
1 1/8	Promo	Fed 209A	Rem R12L	18.5 grs 9300 psi	19.5 grs 9500 psi						
1 1/8	Promo	Fed 209A	RXP 12	18.0 grs 8900 psi	19.0 grs 9900 psi		21.0 grs 10000 ps				
1 1/8	Promo	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	18.0 grs 8600 psi	19.0 grs 10500 psi						
1 1/8	Promo	Fed 209A	Windjammer	18.5 grs 8200 psi	19.0 grs 8700 psi						
1 1/8	Promo	Fed 209A	CB 6118-12	18.0 grs 8550 psi	19.0 grs 9160 psi		20.0 grs 9910 psi				
1 1/8	American Select	Fed 209A	12S3 & DRF3	19.0 grs 8200 psi	20.5 grs 10400 psi						
1 1/8	American Select	Fed 209A	Versalite	19.0 grs 7900 psi	20.0 grs 10100 psi						
1 1/8	American Select	Fed 209A	Figure 8 & DRRF8	19.0 grs 7600 psi	20.0 grs 9800 psi						

continued 45

	12 Gauge 1 1/8, 1 1/4, 1 3/8 & 1 1/2 Ounce Loads continued										
Shot	Powder	Primer	Wad	Charge '	Weight (grains) / Ve	elocity (fps) & Pres	sure (psi)				
(oz)				1145 fps	1200 fps	1235 fps	1250 fps				
1 1/8	American Select	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8	19.0 grs 8400 psi	20.5 grs 10400 psi						
1 1/8	American Select	Fed 209A	WT 12 (Orange)	19.0 grs 8100 psi	20.5 grs 10200 psi						
1 1/8	American Select	Fed 209A	Windjammer	19.5 grs 7100 psi	20.0 grs 9100 psi						
1 1/8	American Select	Rem 209P	12S3 & DRF3	19.0 grs 8500 psi	21.0 grs 9700 psi						
1 1/8	American Select	Win 209	12S3 & DRF3	19.0 grs 8900 psi	20.5 grs 9700 psi						
1 1/8	American Select	Fed 209A	CB 6118-12	19.5 grs 7290 psi	20.5 grs 8130 psi		22.0 grs 9440 psi				
1 1/8	Unique	Fed 209A	12S3 & DRF3		22.0 grs 7200 psi		23.0 grs 8300 psi				
1 1/8	Unique	Fed 209A	Versalite		22.0 grs 7900 psi		23.0 grs 8700 psi				
1 1/8	Unique	Fed 209A	Red PC		22.5 grs 8400 psi		24.5 grs 8500 psi				
1 1/8	Unique	Fed 209A	Rem R12L		22.0 grs 7800 psi						
1 1/8	Unique	Fed 209A	RXP 12		21.0 grs 8000 psi		22.0 grs 9500 psi				
1 1/8	Unique	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8		21.0 grs 8600 psi						
1 1/8	Unique	Fed 209A	Windjammer		23.5 grs 7600 psi						
1 1/4	Green Dot	CCI 209M	12S4			23.0 grs 10500 psi					
1 1/4	Green Dot	Fed 209A	12S4			23.0 grs 10500 psi					
1 1/4	Green Dot	Fed 209A	Versalite			23.0 grs 9600 psi					
1 1/4	Green Dot	Fed 209A	SP 12			21.0 grs 9600 psi					
1 1/4	Green Dot	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8			21.0 grs 10500 psi					
1 1/4	Green Dot	Fed 209A	WAA 12F114			23.0 grs 9900 psi					
1 1/4	Green Dot	Rem 209P	12S4			23.0 grs 9900 psi					
1 1/4	Unique	CCI 209M	12S4			25.5 grs 9700 psi					
1 1/4	Unique	Fed 209A	12S4			24.0 grs 9800 psi					
1 1/4	Unique	Fed 209A	Versalite			23.0 grs 8800 psi					
1 1/4	Unique	Fed 209A	SP 12			22.0 grs 9600 psi					
1 1/4	Unique	Fed 209A	WAA 12 & DRA12 & DRXL 1 1/8			22.0 grs 10000 psi					
1 1/4	Unique	Fed 209A	WAA 12F114			23.5 grs 9500 psi					
1 1/4	Unique	Rem 209P	12S4			25.5 grs 9100 psi					
1 1/4	Unique	Win 209	12S4			24.5 grs 10600 psi					
1 3/8	Blue Dot	CCI 209M	SP 12				34.5 grs 9500 psi				

12 Gauge 2 3/4 inch Federal Gold Medal Paper Target Shells continued

			12 Gauge 1 1/8,	1 1/4, 1	3/8 & 1	1/2 Ound	ce Load	s continu	ıed		
Shot	Powder	Primer	Wad		Charge '	Weight (g	rains)/Vo	elocity (fp	s) & Pres	sure (psi)
(oz)				114	5 fps	120	O fps	123!	5 fps	125	0 fps
1 3/8	Blue Dot	Fed 209A	SP 12							34.0 grs	9900 ps
1 3/8	Blue Dot	Rem 209P	SP 12							36.0 grs	8300 ps
1 3/8	Blue Dot	Win 209	SP 12							34.5 grs	9500 ps
1 1/2	Herco	Fed 209A	SP 12	25.0 grs	10200 psi						
1 1/2	Blue Dot	Fed 209A	RP 12	32.5 grs	8800 psi						
1 1/2	Blue Dot	CCI 209M	RP 12			35.0 grs	9400 psi				
1 1/2	Blue Dot	Fed 209A	RP 12			34.0 grs	9300 psi				
1 1/2	Blue Dot	Rem 209P	RP 12			34.5 grs	10300 psi				
1 1/2	Blue Dot	Win 209	RP 12			35.0 grs	9600 psi				
12 GAUGE 2 3/4 INCH FIOCCHI PLASTIC TARGET SHELLS											
12 Gauge 7/8 and 1 Ounce Target Loads											
Shot	Powder	Primer	Wad		Charge \	Neight (g	rains)/Ve	locity (fp:	s) & Press	sure (psi)	
(oz)				120	0 fps	1250) fps	1300	O fps		
7/8	Red Dot	Fio 616	1280	17.5 grs	6700 psi	19.0 grs	6900 psi	19.5 grs	8800 psi		
7/8	Red Dot	Fio 616	Purple PC	17.5 grs	6400 psi	19.0 grs	6700 psi	20.0 grs	8600 psi		
7/8	Red Dot	Fio 616	TGT 12 & DRRT12	17.0 grs	6900 psi	18.5 grs	7000 psi	20.0 grs	7900 psi		
7/8	Red Dot	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs	6700 psi	18.5 grs	6800 psi	20.0 grs	8100 psi		
7/8	Green Dot	Fio 616	Purple PC					22.5 grs	7700 psi		
7/8	Green Dot	Fio 616	TGT 12 & DRRT12					22.0 grs	7600 psi		
7/8	Green Dot	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1					22.0 grs	7900 psi		
7/8	Promo	Fio 616	1280	17.5 grs	6700 psi	19.0 grs	6900 psi	19.5 grs	8800 psi		
7/8	Promo	Fio 616	Purple PC	17.5 grs	6400 psi	19.0 grs	6700 psi	20.0 grs	8600 psi		
7/8	Promo	Fio 616	TGT 12 & DRRT12	17.0 grs	6900 psi	18.5 grs	7000 psi	20.0 grs	7900 psi		
7/8	Promo	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs	6700 psi	18.5 grs	6800 psi	20.0 grs	8100 psi		
1	Red Dot	Fio 616	12S0	18.0 grs	9100 psi						
1	Red Dot	Fio 616	Purple PC	18.0 grs	8100 psi	19.0 grs	9500 psi	21.0 grs	9800 psi		
1	Red Dot	Fio 616	TGT 12 & DRRT12	18.0 grs	8500 psi	19.0 grs	9300 psi	20.5 grs	10100 psi		
1	Red Dot	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs	8500 psi	19.0 grs	9500 psi	20.5 grs	10300 psi		
1	Green Dot	Fio 616	12S0	20.0 grs	8100 psi						
1	Green Dot	Fio 616	Purple PC	20.0 grs	7200 psi	21.0 grs	8200 psi	23.0 grs	8400 psi		
1	Green Dot	Fio 616	TGT 12 & DRRT12	20.0 grs	7400 psi	21.0 grs	8400 psi	22.5 grs	8600 psi		
1	Green Dot	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	20.0 grs	7900 psi	21.0 grs	8100 psi	22.5 grs	9400 psi		
1	Promo	Fio 616	12\$0	18 0 are	9100 psi						

	12 Gauge 7/8 and 1 Ounce Target Loads continued									
Shot	Powder	Primer	Wad	Charge \	Weight (grains) / Ve	elocity (fps) & Press	sure (psi)			
(oz)				1200 fps	1250 fps	1300 fps				
1	Promo	Fio 616	Purple PC	18.0 grs 8100 psi	19.0 grs 9500 psi	21.0 grs 9800 psi				
1	Promo	Fio 616	TGT 12 & DRRT12	18.0 grs 8500 psi	19.0 grs 9300 psi	20.5 grs 10100 psi				
1	Promo	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	18.0 grs 8500 psi	19.0 grs 9500 psi	20.5 grs 10300 psi				
			12 Gauge 1 1/8,	1 1/4, 1 3/8 & 1	1/2 Ounce Load	ls				
Shot	Powder	Primer	Wad	Charge \	<i>N</i> eight (grains) / Ve	locity (fps) & Press	sure (psi)			
(oz)				1090 fps	1145 fps	1200 fps	1250 fps			
1 1/8	American Select	Fio 616	CB 3118-12AR	18.0 grs 7100 psi	19.5 grs 8000 psi	21.0 grs 9000 psi	22.5 grs 10700 psi			
1 1/8	American Select	Fio 616	12S3 & DRF3	17.5 grs 7400 psi	19.0 grs 8700 psi	20.5 grs 9400 psi	22.0 grs 10300 psi			
1 1/8	Red Dot	Fio 616	12S3 & DRF3	16.0 grs 8400 psi	18.0 grs 9200 psi	19.0 grs 9700 psi				
1 1/8	Green Dot	Fio 616	12S3 & DRF3	18.5 grs 7200 psi	20.0 grs 7500 psi					
1 1/8	Promo	Fio 616	12S3 & DRF3	16.0 grs 8400 psi	18.0 grs 9200 psi	19.0 grs 9700 psi				
1 1/8	Red Dot	Fio 616	Versalite	16.5 grs 8100 psi	17.5 grs 9000 psi	18.5 grs 9500 psi				
1 1/8	Red Dot	Fio 616	Figure 8 & DRRF8	16.0 grs 8000 psi	18.0 grs 8400 psi	19.5 grs 9600 psi	20.5 grs 10200 psi			
1 1/8	Red Dot	Fio 616	RXP 12	16.5 grs 8700 psi	18.0 grs 8700 psi	19.5 grs 9700 psi				
1 1/8	Red Dot	Fio 616	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 7600 psi	18.0 grs 9000 psi	19.5 grs 9400 psi				
1 1/8	Red Dot	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8300 psi					
1 1/8	Red Dot	Fio 616	Windjammer		18.5 grs 7400 psi	20.0 grs 8600 psi	21.0 grs 9400 psi			
1 1/8	Green Dot	Fio 616	Versalite	18.5 grs 7100 psi	19.5 grs 7500 psi	21.0 grs 8200 psi	22.5 grs 9300 psi			
1 1/8	Green Dot	Fio 616	Figure 8 & DRRF8	18.5 grs 6500 psi	20.0 grs 7100 psi	21.5 grs 8500 psi	23.0 grs 8800 psi			
1 1/8	Green Dot	Fio 616	RXP 12	18.5 grs 6700 psi	20.0 grs 7200 psi	21.5 grs 7900 psi	23.0 grs 9200 psi			
1 1/8	Green Dot	Fio 616	WAA 12 & DRA12 & DRXL 1 1/8	18.5 grs 7000 psi	20.0 grs 7600 psi	21.5 grs 8100 psi	23.0 grs 8900 psi			
1 1/8	Green Dot	Fio 616	Windjammer		19.5 grs 7200 psi	21.0 grs 7700 psi	22.5 grs 9000 psi			
1 1/8	Promo	Fio 616	Versalite	16.5 grs 8100 psi	17.5 grs 9000 psi	18.5 grs 9500 psi				
1 1/8	Promo	Fio 616	Figure 8 & DRRF8	16.0 grs 8000 psi	18.0 grs 8400 psi	19.5 grs 9600 psi	20.5 grs 10200 psi			
1 1/8	Promo	Fio 616	RXP 12	16.5 grs 8700 psi	18.0 grs 8700 psi	19.5 grs 9700 psi				
1 1/8	Promo	Fio 616	WAA 12 & DRA12 & DRXL 1 1/8	17.0 grs 7600 psi	18.0 grs 9000 psi	19.5 grs 9400 psi				
1 1/8	Promo	Fio 616	WAA12SL & DRXL-1 & Jammer XL-1	17.0 grs 7300 psi	18.0 grs 8300 psi					
1 1/8	Promo	Fio 616	Windjammer		18.5 grs 7400 psi	20.0 grs 8600 psi	21.0 grs 9400 psi			
1 1/8	Unique	Fio 616	Versalite			24.0 grs 7100 psi	25.0 grs 7800 psi			
1 1/8	Unique	Fio 616	Figure 8 & DRRF8			23.5 grs 7000 psi	24.5 grs 7600 psi			
1 1/8	Unique	Fio 616	RXP 12			22.5 grs 7200 psi	23.5 grs 8200 psi			

continued

12 Gauge 2 3/4 inch Fiocchi Plastic Target Shells continued

	12 Gauge 1 1/8, 1 1/4, 1 3/8 & 1 1/2 Ounce Loads continued										
Shot	Powder	Primer	Wad	Charge \	Neight (grains) / Ve	locity (fps) & Press	sure (psi)				
(oz)				1090 fps	1145 fps	1200 fps	1250 fps				
1 1/8	Unique	Fio 616	WAA 12 & DRA12 & DRXL1 1/8			23.5 grs 6800 psi	25.0 grs 7800 psi				
1 1/8	Unique	Fio 616	Windjammer			24.0 grs 6400 psi	25.5 grs 6900 psi				
1 1/8	Herco	Fio 616	Versalite				25.5 grs 7700 psi				
1 1/8	Herco	Fio 616	Figure 8 & DRRF8				26.0 grs 7300 psi				
1 1/8	Herco	Fio 616	RXP 12				26.0 grs 7500 psi				
1 1/8	Herco	Fio 616	WAA 12 & DRA12 & DRXL 1 1/8				26.0 grs 7900 psi				
1 1/8	Herco	Fio 616	Windjammer				26.5 grs 7700 psi				
1 1/4	Green Dot	CCI 209M	Rem R12H				24.5 grs 8000 psi				
1 1/4	Green Dot	Fio 616	12S4				23.0 grs 9700 psi				
1 1/4	Green Dot	Win 209	WAA 12F114				23.0 grs 10000 psi				
1 1/4	Unique	Fio 616	12S4				25.0 grs 8800 psi				
1 1/4	Unique	Win 209	WAA 12F114				25.0 grs 8700 psi				
1 1/2	Blue Dot	Fio 616	RP 12		32.5 grs 8700 psi						
1 1/2	Blue Dot	CCI 209M	RP 12			33.0 grs 9500 psi	36.5 grs 10600 psi				
1 1/2	Blue Dot	Fio 616	RP 12			36.5 grs 9000 psi	37.5 grs 9600 psi				
1 1/2	Blue Dot	Win 209	RP 12			35.5 grs 8600 psi	36.5 grs 10300 psi				

	12 GAUGE 2 3/4 INCH 1 1/8, 1 1/4 AND 1 3/8 HEAVY LOADS											
	12 Gauge 2 3/4 inch Remington Plastic Shells (STS, Nitro 27, Premier RXP and Gun Club)											
Shot	Powder	Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi)										
(oz)				1275 fps	1310 fps	1330 fps	1375 fps					
1 1/8	Unique	CCI 209M	RXP 12		25.0 grs 10000 psi							
1 1/8	Unique	FIO 616	RXP 12		26.0 grs 9900 psi							
1 1/8	Unique	Rem 209P	Versalite		25.5 grs 9900 psi							
1 1/8	Unique	Rem 209P	RXP 12		24.5 grs 9700 psi							
1 1/8	Unique	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8		25.0 grs 10500 psi							
1 1/8	Unique	Rem 209P	Windjammer		26.5 grs 8600 psi							
1 1/8	Unique	Win 209	RXP 12		26.0 grs 9800 psi							
1 1/8	Herco	CCI 209M	RXP 12		26.5 grs 9700 psi							
1 1/8	Herco	Win 209	RXP 12		27.0 grs 9300 psi							
1 1/8	Herco	FIO 616	RXP 12		27.5 grs 9300 psi							
1 1/8	Herco	Rem 209P	Versalite		27.0 grs 8800 psi							
1 1/8	Herco	Rem 209P	RXP 12		27.5 grs 8400 psi							
1 1/8	Herco	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8		27.0 grs 8800 psi							

continued 49

	12 Ga	auge 2 3/4 i	nch Remington Plas	stic Shells (STS,	Nitro 27, Premie	RXP and Gun Cl	ub) conti	nued
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (ps	si)
(oz)				1275 fps	1310 fps	1330 fps	1375	i fps
1 1/8	Herco	Rem 209P	Windjammer		28.5 grs 8600 psi			
1 1/4	Herco	Rem 209P	SP 12	27.0 grs 10700 psi				
1 1/4	Herco	Rem 209P	WAA 12F114	26.5 grs 10500 psi				
1 1/4	Herco	Win 209	SP 12	26.0 grs 10600 psi				
1 1/4	Blue Dot	Win 209	SP 12	35.5 grs 9100 psi		36.5 grs 9900 psi		
1 1/4	Blue Dot	CCI 209M	SP 12	34.5 grs 9800 psi		35.5 grs 10300 psi		
1 1/4	Blue Dot	FIO 616	SP 12	35.5 grs 9300 psi		35.5 grs 9900 psi		
1 1/4	Blue Dot	Rem 209P	CB 1138-12			37.5 grs 10200 psi		
1 1/4	Blue Dot	Rem 209P	SP 12			37.5 grs 9700 psi		
1 3/8	Blue Dot	CCI 209M	RP 12		35.5 grs 10400 psi			
1 3/8	Blue Dot	FIO 616	RP 12		35.5 grs 10000 psi			
1 3/8	Blue Dot	Rem 209P	SP 12		37.5 grs 10300 psi			
1 3/8	Blue Dot	Win 209	RP 12		35.5 grs 10500 psi			
1 3/8	Blue Dot	Rem 209P	RP 12		36.5 grs 9900 psi			
		12 Ga	uge 2 3/4 inch Fed	eral® Gold Med	lal® Plastic Tar	get Shells		
Shot	Powder	Primer	Wad	Charge V	Weight (grains) / Ve	locity (fps) & Press	ure (psi)	
(oz)				1275 fps	1310 fps	1350 fps	1440) fps
1 1/8	Herco	Fed 209A	WAA12F114				30.0 grs	10500 psi
1 1/8	Herco	Fed 209A	Red PC				32.0 grs	10500 psi
1 1/8	Green Dot	Fed 209A	RXP 12		24.0 grs 10400 psi			
1 1/8	Green Dot	Fed 209A	WAA 12 (White)		23.0 grs 10400 psi			
1 1/8	Green Dot	Fed 209A	Windjammer		24.0 grs 8800 psi			
1 1/8	Unique	Fed 209A	Versalite		25.0 grs 10000 psi			
1 1/8	Unique	Fed 209A	RXP 12		26.0 grs 10300 psi			
1 1/8	Unique	Fed 209A	WAA 12 (White)		25.0 grs 9200 psi			
1 1/8	Unique	Fed 209A	Windjammer		25.0 grs 9700 psi			
1 1/4	Herco	Fed 209A	SP 12	27.0 grs 10100 psi				
1 1/4	Herco	Fed 209A	WAA12F114	27.0 grs 10500 psi	28.0 grs 10800 psi			
1 1/4	Herco	Rem 209P	12S4	27.5 grs 9200 psi				
1 1/4	Herco	Fed 209A	Red PC		29.0 grs 10000 psi			
1 1/4	Blue Dot	CCI 209M	12S4	35.0 grs 9100 psi				
1 1/4	Blue Dot	Fed 209A	12S4	34.0 grs 8900 psi				
1 1/4	Blue Dot	Win 209	12S4	35.0 grs 8700 psi				
1 1/4	Blue Dot	Fed 209A	RP 12				40.5 grs	10700 psi
1 1/4	Blue Dot	CCI 209M	SP 12			37.5 grs 8300 psi		
1 1/4	Blue Dot	Fed 209A	SP 12			35.0 grs 10500 psi		

12 Gauge 2 3/4 inch 1 1/8, 1 1/4 and 1 3/8 Heavy Loads continued

		12 G	auge 2 3/4 inch Fe	deral® Gold M	edal® Plastic Taı	get Shells contin	ued
Shot	Powder	Primer	Wad	Charge	Weight (grains) / Ve	elocity (fps) & Press	ure (psi)
(oz)				1275 fps	1310 fps	1350 fps	1440 fps
1 1/4	Blue Dot	Win 209	SP 12			37.0 grs 9000 psi	
1 3/8	Blue Dot	CCI 209M	RP 12	33.0 grs 9600 psi	36.5 grs 9000 psi		
1 3/8	Blue Dot	Fed 209A	RP 12	34.0 grs 9900 psi	35.5 grs 10700 psi		
1 3/8	Blue Dot	Rem 209P	RP 12	36.0 grs 7800 psi	39.0 grs 8600 psi		
1 3/8	Blue Dot	Win 209	RP 12	34.5 grs 8600 psi	36.0 grs 9200 psi		
		12 G	auge 2 3/4 inch Fe	deral® Gold M	edal® Paper Tarç	jet Shells	
Shot	Powder	Primer	Wad	Charge	: Weight (grains)/ Ve	locity (fps) & Press	ure (psi)
(oz)				1310 fps	1330 fps	1400 fps	1450 fps
1 1/8	Herco	Fed 209A	WAA 12F114			30.0 grs 10700 psi	
1 1/4	Herco	CCI 209M	12S4		29.5 grs 9900 psi		
1 1/4	Herco	Fed 209A	RP 12		29.0 grs 9400 psi		
1 1/4	Herco	Fed 209A	SP 12		29.5 grs 9300 psi		
1 1/4	Herco	Fed 209A	WAA 12F114		29.5 grs 9200 psi		
1 1/4	Blue Dot	CCI 209M	12S4		37.0 grs 9000 psi		
1 1/4	Blue Dot	Fed 209A	12S4		37.0 grs 10300 psi		
1 3/8	Blue Dot	CCI 209M	SP 12	37.0 grs 10600 ps			
1 3/8	Blue Dot	Fed 209A	SP 12	35.5 grs 10300 ps			
1 3/8	Blue Dot	Rem 209P	SP 12	38.0 grs 8600 psi			
1 3/8	Blue Dot	Win 209	SP 12	36.5 grs 10200 ps			
1 3/8	Blue Dot	Fed 209A	RP 12		37.5 grs 10700 psi		
			12 Gauge 2 3/4 ir	nch Wincheste	r AA Plastic She	ells	
Shot	Powder	Primer	Wad	Charge	Weight (grains) / Ve	locity (fps) & Press	ure (psi)
(oz)				1300 fps	1350 fps	1375 fps	1425 fps
1 1/8	Green Dot	Win 209	Red PC	23.0 grs 10200 ps			
1 1/8	Unique	CCI 209M	WAA 12 & DRA12 & DRXL 1 1/8	25.5 grs 9700 psi			
1 1/8	Unique	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	26.0 grs 9700 psi			
1 1/8	Unique	Win 209	Versalite	25.0 grs 10300 ps			
1 1/8	Unique	Win 209	Red PC	25.0 grs 9100 psi			
1 1/8	Unique	Win 209	RXP 12	24.0 grs 9800 psi			
1 1/8	Unique	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	25.5 grs 10000 ps			
1 1/8	Herco	Rem 209P	WAA 12 & DRA12 & DRXL 1 1/8	27.0 grs 8100 psi			
1 1/8	Herco	Win 209	Versalite	26.5 grs 9900 psi			
1 1/8	Herco	Win 209	RXP 12	26.5 grs 9100 psi			

			12 Gauge 2 3/4 ii	nch Wir	nchester	AA Plastic She	ells continued		
Shot	Powder	Primer	Wad		Charge \	Veight (grains) / Ve	locity (fps) & Press	sure (psi)	
(oz)				130	0 fps	1350 fps	1375 fps	1425	fps
1 1/8	Herco	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	26.5 grs	9300 psi				
1 1/4	Herco	Rem 209P	WAA 12F114	27.0 grs	9400 psi				
1 1/4	Blue Dot	Win 209	SP 12	35.0 grs	8200 psi				
1 1/4	Blue Dot	Win 209	RP 12				38.0 grs 10200 psi		
1 1/4	Blue Dot	Win 209	SP 12				37.0 grs 10300 psi		
1 1/4	Blue Dot	Win 209	WAA 12R				37.5 grs 10200 psi		
1 1/4	Blue Dot	Win 209	CB 1138-12					37.5 grs	10600 ps
			12 Gauge 2 3	/4 inch	Fiocchi	Plastic Shells			
1 1/8	Green Dot	CCI 209M	RXP 12	24.0 grs	10000 psi				
1 1/8	Green Dot	Fio 616	12S3 & DRF3	25.0 grs	9600 psi				
1 1/8	Green Dot	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	25.0 grs	8700 psi				
1 1/8	Unique	CCI 209M	RXP 12	26.5 grs	8400 psi				
1 1/8	Unique	Fio 616	12S3 & DRF3	27.0 grs	8600 psi				
1 1/8	Unique	Win 209	WAA 12 & DRA12 & DRXL 1 1/8	26.5 grs	8300 psi				
1 1/4	Unique	CCI 209M	12S4	27.0 grs	10300 psi				
1 1/4	Unique	Fio 616	WAA 12F114	27.0 grs	10000 psi				
1 1/4	Herco	CCI 209M	SP 12	30.0 grs	9200 psi				
1 1/4	Herco	Fio 616	12S4	30.0 grs	9500 psi				
1 1/4	Herco	Fio 616	SP 12	30.5 grs	8600 psi				
1 1/4	Herco	Fio 616	WAA 12F114	30.0 grs	9200 psi				
1 1/4	Herco	Win 209	WAA 12F114	30.0 grs	10100 psi				
1 1/4	Blue Dot	CCI 209M	SP 12	41.0 grs	7600 psi				
1 1/4	Blue Dot	Fio 616	12S4	40.0 grs	8300 psi				
1 1/4	Blue Dot	Fio 616	SP 12	41.0 grs	7700 psi				
1 1/4	Blue Dot	Fio 616	WAA 12F114	39.5 grs	7500 psi				
1 1/4	Blue Dot	Win 209	WAA 12F114	38.5 grs	8300 psi				
1 3/8	Blue Dot	CCI 209M	RP 12	37.0 grs	9600 psi	40.0 grs 10100 psi			
1 3/8	Blue Dot	Fio 616	RP 12	38.0 grs	9100 psi				
1 3/8	Blue Dot	Win 209	RP 12	38.0 grs	9500 psi	40.0 grs 9900 psi			

			12 GAUGE 3	INCH SHOTSHE	LL LOAD DATA		
	12 G	auge 3 inc	ch Federal® Game	Load Plastic Sl	nells with Rolle	d Paper Base V	Vad
Shot	Powder	Primer	Wad	Charge Wo	eight (grains) / Ve	elocity (fps) & Pre	ssure (psi)
(oz)				1155 fps	1245 fps	1300 fps	1350 fps
1 3/8	Herco	Fed 209A	12S3 & DRF3			30.5 grs 10000 psi	
1 3/8	Herco	Fed 209A	RXP 12			30.5 grs 9300 psi	
1 3/8	Herco	Fed 209A	WAA 12(White)			30.5 grs 9700 psi	
1 3/8	Blue Dot	Fed 209A	RXP 12			38.0 grs 9000 psi	
1 3/8	Blue Dot	Fed 209A	WAA 12(White)			38.0 grs 8800 psi	
1 3/8	Blue Dot	Fed 209A	12S4				40.0 grs 9400 psi
1 3/8	Blue Dot	Fed 209A	SP 12				40.0 grs 8900 psi
1 1/2	Blue Dot	Fed 209A	12S3 & DRF3			38.0 grs 9700 psi	
1 1/2	Blue Dot	Fed 209A	RXP 12			38.5 grs 9600 psi	
1 1/2	Blue Dot	Fed 209A	WAA 12(White)			37.5 grs 9800 psi	
1 5/8	Blue Dot	Fed 209A	SP 12			38.0 grs 10400 psi	
1 3/4	Blue Dot	Fed 209A	RP 12		39.0 grs 10500 psi		
1 7/8	Blue Dot	Fed 209A	RP 12	34.0 grs 10500 psi			
1 7/8	Blue Dot	Fed 209A	SP 12	36.0 grs 10300 psi			
			12 Gauge 3 inch l	ederal® One- P	iece Plastic Sh	ells	
1 3/8	Herco	Fed 209A	12S3 & DRF3			31.0 grs 10500 psi	
1 3/8	Blue Dot	Fed 209A	12S3 & DRF3			40.5 grs 7900 psi	
1 3/8	Herco	Fed 209A	RXP 12			32.0 grs 10100 psi	
1 3/8	Blue Dot	Fed 209A	WAA 12(White)			38.0 grs 9800 psi	
1 3/8	Blue Dot	Fed 209A	RXP 12				42.0 grs 8000 psi
1 3/8	Blue Dot	Fed 209A	WAA 12(White)				44.0 grs 9900 psi
1 1/2	Blue Dot	Fed 209A	12S4			40.0 grs 9700 psi	
1 1/2	Blue Dot	Fed 209A	SP 12			40.0 grs 9000 psi	
1 5/8	Blue Dot	Fed 209A	12S4			40.0 grs 10100 psi	
1 5/8	Blue Dot	Fed 209A	SP 12			40.0 grs 9400 psi	
1 3/4	Blue Dot	Fed 209A	RP 12		39.0 grs 10500 psi		
1 7/8	Blue Dot	Fed 209A	SP 12	36.5 grs 9900 psi			
		12 Gauge	3 inch Federal® G	ame Load Plas	tic with 7/16 Fil	ber Base Wad	
Shot	Powder	Primer	Wad	Charge	Weight(grains)/ Ve	locity (fps) & Press	sure (psi)
(oz)				1150 fps	1175 fps		
1 7/8	Blue Dot	Fed 209A	WAA12R		32.5 grs 11200 psi		
2	Blue Dot	Fed 209A	SP 12	33.0 grs 11400 psi			

12 Gauge 3 inch Shotshell Load Data continued

	12 Gauge 3 inch Fiocchi Plastic Shells										
Shot	Powder	Primer	Wad	Charge V	Weight (grains) / Ve	elocity (fps) & Press	sure (psi)				
(oz)				1155 fps	1245 fps	1300 fps	1350 fps				
1 3/8	Herco	CCI 209M	12S3 & DRF3			30.0 grs 10000 psi					
1 3/8	Blue Dot	CCI 209M	12S3 & DRF3			37.0 grs 9000 psi					
1 3/8	Herco	Fio 616	12S3 & DRF3			31.5 grs 9100 psi					
1 3/8	Herco	Fio 616	RXP 12			32.5 grs 8600 psi					
1 3/8	Herco	Fio 616	WAA 12(White)			31.5 grs 8900 psi					
1 3/8	Herco	Win 209	12S3 & DRF3			29.5 grs 10600 psi					
1 3/8	Blue Dot	Win 209	12S3 & DRF3			37.5 grs 8800 psi					
1 3/8	Blue Dot	CCI 209M	12S4				38.0 grs 10400 psi				
1 3/8	Herco	Fio 616	12S4				32.0 grs 10700 psi				
1 3/8	Herco	Fio 616	SP 12				32.5 grs 10100 psi				
1 3/8	Blue Dot	Win 209	12S4				38.5 grs 10100 psi				
1 1/2	Blue Dot	CCI 209M	12S4			38.0 grs 10400 psi					
1 1/2	Blue Dot	Fio 616	12S4			39.0 grs 10300 psi					
1 1/2	Blue Dot	Fio 616	SP 12			39.0 grs 9700 psi					
1 1/2	Blue Dot	Win 209	12S4			39.0 grs 10600 psi					
1 5/8	Blue Dot	Fio 616	12S4			39.0 grs 10700 psi					
1 5/8	Blue Dot	Fio 616	SP 12			39.5 grs 9700 psi					
1 7/8	Blue Dot	Fio 616	RP 12	34.5 grs 10700 psi							
		12 Gauge	3 inch Rem - Peter	rs SP Plastic Sh	ells with Sepa	rate Base Wad					
1 3/8	Herco	CCI 209M	12S3 & DRF3			29.5 grs 10000 psi					
1 3/8	Herco	CCI 209M	RXP 12			30.0 grs 9200 psi					
1 3/8	Herco	CCI 209M	WAA 12 (White)			30.0 grs 10000 psi					
1 3/8	Blue Dot	CCI 209M	12S3 & DRF3			42.0 grs 8400 psi					
1 3/8	Blue Dot	CCI 209M	RXP 12			42.5 grs 8000 psi					
1 3/8	Blue Dot	CCI 209M	WAA 12 (White)			42.0 grs 8500 psi					
1 1/2	Blue Dot	CCI 209M	12S4			39.5 grs 9800 psi					
1 1/2	Blue Dot	CCI 209M	SP 12			40.0 grs 9400 psi					
1 5/8	Blue Dot	CCI 209M	12S4			38.5 grs 10200 psi					
1 5/8	Blue Dot	CCI 209M	SP 12			39.0 grs 9800 psi					
1 5/8	Blue Dot	CCI 209M	WAA12F114			38.5 grs 10500 psi					
1 3/4	Blue Dot	CCI 209M	RP 12			38.5 grs 10700 psi					
1 7/8	Blue Dot	CCI 209M	RP 12			34.0 grs 10300 psi					

			12 GAUGE 3 1/	2 INCH SHOTSH	IELL LOAD DAT	A	
			12 Gauge 3 1,	/2 inch Federal®	Plastic Shells		
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
(oz)				1150 fps	1200 fps	1220 fps	1255 fps
1 7/8	Blue Dot	CCI 209M	12S0		41.0 grs 9100 psi		
1 7/8	Blue Dot	CCI 209M	R 12L		40.5 grs 9600 psi		
1 7/8	Blue Dot	CCI 209M	WAA 12 SL		41.0 grs 8900 psi		
1 7/8	Blue Dot	Win 209	12S0		40.0 grs 9000 psi		
1 7/8	Blue Dot	CCI 209M	12S0				43.0 grs 9800 psi
1 7/8	Blue Dot	CCI 209M	R 12L				42.5 grs 10100 psi
1 7/8	Blue Dot	CCI 209M	WAA 12 SL				43.0 grs 9500 psi
1 7/8	Blue Dot	Win 209	12S0				42.5 grs 10100 psi
2	Blue Dot	CCI 209M	12S0			42.5 grs 10000 psi	
2	Blue Dot	CCI 209M	R 12L			42.0 grs 10000 psi	
2	Blue Dot	CCI 209M	WAA 12 SL			42.5 grs 9800 psi	
2	Blue Dot	Win 209	12S0			41.0 grs 9900 psi	
2 1/4	Blue Dot	CCI 209M	12S4	38.5 grs 11100 psi			
2 1/4	Blue Dot	CCI 209M	SP 12	38.5 grs 11200 psi			
2 1/4	Blue Dot	CCI 209M	WAA 12F114	38.5 grs 11100 psi			
2 1/4	Blue Dot	Win 209	12S4	38.0 grs 10900 psi			
			12 Gauge 3 1	/2 inch Reming	ton Plastic SP		
1 7/8	Blue Dot	CCI 209M	12SO		38.0 grs 10100 psi		
1 7/8	Blue Dot	CCI 209M	R 12L		38.0 grs 10300 psi		
1 7/8	Blue Dot	CCI 209M	WAA 12 SL		38.0 grs 10000 psi		
1 7/8	Blue Dot	Win 209	R 12L		37.5 grs 10500 psi		
1 7/8	Blue Dot	CCI 209M	12S0				39.0 grs 10600 psi
1 7/8	Blue Dot	CCI 209M	R 12L				39.0 grs 10900 psi
1 7/8	Blue Dot	CCI 209M	WAA 12 SL				39.0 grs 10400 psi
1 7/8	Blue Dot	Win 209	R 12L				38.5 grs 11000 psi
2	Blue Dot	CCI 209M	12S0			39.5 grs 10800 psi	
2	Blue Dot	CCI 209M	R 12L			39.5 grs 11100 psi	
2	Blue Dot	CCI 209M	WAA 12 SL			39.0 grs 10700 psi	
2	Blue Dot	Win 209	R 12L			39.0 grs 11200 psi	
2 1/4	Blue Dot	CCI 209M	12S4	37.0 grs 11100 psi			
2 1/4	Blue Dot	CCI 209M	SP 12	38.0 grs 11100 psi			
2 1/4	Blue Dot	Win 209	SP 12	38.0 grs 11500 psi			
			12 Gauge 3 1/2	inch Winchest	er Plastic Shell	s	
1 7/8	Blue Dot	CCI 209M	WAA 12 SL		38.0 grs 10100 psi		
1 7/8	Blue Dot	Win 209	12SO		38.5 grs 10600 psi		
1 7/8	Blue Dot	Win 209	R 12L		38.5 grs 10300 psi		
			*	•			

54 continued 55

12 Gauge 3 1/2 inch Shotshell Load Data continued

	12 Gauge 3 1/2 inch Winchester Plastic Shells continued									
Shot	Powder	Primer	Wad	Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi)						
(oz)				1150 fps	1200 fps	1220 fps	1255 fps			
1 7/8	Blue Dot	Win 209	WAA 12 SL		38.5 grs 10000 psi					
1 7/8	Blue Dot	CCI 209M	WAA 12 SL				39.5 grs 10500 psi			
1 7/8	Blue Dot	Win 209	12S0				40.5 grs 10700 psi			
1 7/8	Blue Dot	Win 209	R 12L				40.0 grs 10700 psi			
1 7/8	Blue Dot	Win 209	WAA 12 SL				40.0 grs 10800 psi			
2	Blue Dot	CCI 209M	WAA 12 SL			39.0 grs 11200 psi				
2	Blue Dot	Win 209	12S0			40.5 grs 11000 psi				
2	Blue Dot	Win 209	R 12L			39.0 grs 10600 psi				
2	Blue Dot	Win 209	WAA 12 SL			40.0 grs 11200 psi				
2 1/4	Blue Dot	Win 209	SP 12	37.0 grs 11200 psi						

			16 GAUGE 2 3/	4 INCH SHOTSH	IELL LOAD DATA	A	
	16	Gauge 23	8/4 inch Federal® (Game Load Plas	tic Shells with	Paper Base Wa	d
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
(oz)				1185 fps	1240 fps	1260 fps	1295 fps
1 1/8	Green Dot	Fed 209A	SP 16	19.0 grs 10600 psi			
1 1/8	Unique	Fed 209A	SP 16	21.5 grs 8900 psi	22.5 grs 9600 psi		
1 1/8	Herco	Fed 209A	SP 16	22.0 grs 9100 psi	23.5 grs 10100 psi		24.5 grs 10300 psi
1 1/8	Blue Dot	Fed 209A	SP 16				32.0 grs 8600 psi
1 1/4	Blue Dot	Fed 209A	SP 16			30.5 grs 10200 psi	
			16 Gauge 2 3	3/4 inch Fiocchi	Plastic Shells		
1 1/8	Unique	Fio 616	SP 16	20.5 grs 9900 psi			
1 1/8	Herco	Fio 616	SP 16	21.0 grs 10200 psi	23.5 grs 10700 psi		
1 1/8	Blue Dot	Fio 616	SP 16		31.0 grs 8900 psi		32.5 grs 9200 psi
		16 Gauge	2 3/4 inch Reming	ton SP Plastic S	Shells with Plas	stic Base Wad	
1 1/8	Blue Dot	Rem 209P	SP 16		27.0 grs 9900 psi		

	20 GAUGE SHOTSHELL LOAD DATA										
	20 Gauge 2 3/4 inch Remington Plastic Shells (STS)										
Shot	Powder Primer Wad Charge Weight (grains) / Velocity (fps) & Pressure (psi)										
(oz)		1155 fps 1200 fps 1250 fps 1290 fps									
3/4	American Select	Rem 209P	RXP 20		13.5 gr 10,320 psi	14.0 grs 11,330 psi					
3/4	Green Dot	Rem 209P	RXP 20		14.0 grs 9960 psi		16.0 grs 11300 psi				
3/4	Green Dot	Rem 209P	CB 1078-20		14.0 grs. 9810 psi	15.0 grs 10510 psi					
7/8	20/28	Rem 209P	Windjammer		15.5 grs 9150 psi	16.5 grs 10510 psi					

20 Gauge Shotshell Load Data continued

			20 Gauge 2 3/4 in	ch Remington P	Plastic Shells (S	STS) continued	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pres	sure (psi)
(oz)				1155 fps	1200 fps	1250 fps	1290 fps
7/8	20/28	Rem 209P	Orange Duster		15.5 grs 10110 psi	16.5 grs 10950 psi	
7/8	20/28	Rem 209P	WAA 20		15.5 grs 9690 psi	16.5 grs 10970 psi	
7/8	20/28	Rem 209P	RXP 20		15.5 grs 9310 psi	16.5 grs 10180 psi	
7/8	20/28	Rem 209P	CB 1078-20		15.5 grs 10060 psi	16.5 grs 10720 psi	
7/8	20/28	Rem 209P	Versalite		15.5 grs 9580 psi	16.5 grs 10860 psi	
7/8	20/28	Win 209	CB 1078-20		15.5 grs 10010 psi		
7/8	20/28	Win 209	Windjammer		15.5 grs 9150 psi		
7/8	20/28	Win 209	WAA 20		15.5 grs 10620 psi		
7/8	20/28	Win 209	RXP 20		15.5 grs 10110 psi		
7/8	20/28	Win 209	Orange Duster		15.5 grs 10550 psi		
7/8	Unique	Rem 209P	RXP 20	15.5 grs 10000 psi	16.5 grs 10700 psi		
7/8	Unique	Rem 209P	CB 1078-20	15.5 grs 9500 psi	16.5 grs 10600 psi		
7/8	Unique	Rem 209P	Orange Duster	16.5 grs 7700 psi	17.5 grs 8100 psi		
7/8	Unique	Rem 209P	20S1	15.5 grs 10000 psi	16.5 grs 10800 psi		
7/8	Unique	Rem 209P	Versalite		16.5 grs 10200 psi		
7/8	Unique	Rem 209P	WAA 20		16.5 grs 10900 psi		
7/8	Unique	Rem 209P	Windjammer		16.0 grs 10400 psi		
7/8	Unique	CCI 209	RXP 20		16.5 grs 9900 psi		
7/8	Unique	CCI 209M	RXP 20	15.5 grs 11000 psi	16.0 grs 11300 psi		
7/8	Unique	Fio 616	RXP 20	16.0 grs 10700 psi	16.5 grs 11200 psi		
7/8	Unique	Win 209	RXP 20		16.5 grs 11300 psi		
7/8	Herco	Rem 209P	RXP 20		17.0 grs 10600 psi		
7/8	Herco	Rem 209P	CB 1078-20	16.0 grs 9800 psi	17.5 grs 9800 psi		
7/8	Herco	Rem 209P	20S1	16.0 grs 10000 psi	17.0 grs 10500 psi		
7/8	Herco	Rem 209P	Versalite		17.5 grs 10400 psi		
7/8	Herco	Rem 209P	WAA 20		17.0 grs 10700 psi		
7/8	Herco	Rem 209P	Windjammer		17.0 grs 10100 psi		
7/8	Herco	CCI 209	RXP 20		17.5 grs 9400 psi		
7/8	Herco	CCI 209M	RXP 20	16.5 grs 10500 psi	17.0 grs 10800 psi		
7/8	Herco	Fio 616	RXP 20	16.5 grs 10100 psi	17.0 grs 10700 psi		
7/8	Herco	Win 209	RXP 20		17.0 grs 10600 psi		
1	Herco	Rem 209P	WAA20F1	17.5 grs 11500 psi			
1	Blue Dot	CCI 209	SP 20	22.0 grs 9500 psi	23.0 grs 10300 psi		
1	Blue Dot	CCI 209M	SP 20	21.5 grs 10500 psi	22.5 grs 10900 psi		
1	Blue Dot	Fio 616	SP 20	22.5 grs 9800 psi	23.5 grs 11000 psi		
1	Blue Dot	Rem 209P	SP 20	21.5 grs 9000 psi	24.0 grs 11100 psi		

			20 Gauge 2 3/4 in	ch Remington P	Plastic Shells (S	STS) continued	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	elocity (fps) & Pre	ssure (psi)
(oz)				1155 fps	1200 fps	1250 fps	1290 fps
1	Blue Dot	Rem 209P	WAA20F1	21.5 grs 9000 psi	23.5 grs 10900 psi		
1	Blue Dot	Win 209	SP 20	21.5 grs 10600 psi	22.0 grs 11100 psi		
			20 Gauge 2 3/4 in	nch Winchester	AA Plastic She	ells	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
(oz)				1155 fps	1200 fps	1250 fps	1290 fps
3/4	American Select	Win 209	WAA 20		13.5 grs 10510 psi	14.5 grs 11800 psi	
3/4	American Select	Win 209	CB 1078-20		14.0 grs 10540 psi	14.5 grs 11800 psi	
3/4	Green Dot	Win 209	WAA 20		14.5 grs 9940 psi	15.0 grs 10650 psi	
3/4	Green Dot	Win 209	CB 1078-20		14.0 grs 9930 psi	15.0 grs 10860 psi	
3/4	Unique	Win 209	CB 1078-20				17.0 grs 9980 psi
7/8	20/28	Win 209	WAA 20		15.5 grs 8880 psi	16.5 grs 9740 psi	
7/8	20/28	Win 209	CB 1078-20		15.7 grs 9370 psi	16.7 grs 10490 psi	
7/8	20/28	Win 209	Windjammer		15.7 grs 9470 psi	16.7 grs 10690 psi	
7/8	20/28	Win 209	Versalite		16.0 grs 9430 psi	17.0 grs 10420 psi	
7/8	20/28	Win 209	Orange Duster		15.7 grs 9750 psi	16.7 grs 10630 psi	
7/8	20/28	Rem 209P	CB 1078-20		15.5 grs 9980 psi		
7/8	20/28	Rem 209P	Windjammer		15.5 grs 9580 psi		
7/8	20/28	Rem 209P	Versalite		15.5 grs 9400 psi		
7/8	20/28	Rem 209P	Orange Duster		15.5 grs 9990 psi		
7/8	20/28	Rem 209P	WAA 20		15.5 grs 9890 psi		
7/8	Unique	Win 209	WAA 20	15.0 grs 10200 psi			
7/8	Unique	Win 209	CB 1078-20	15.0 grs 10200 psi	16.0 grs 11200 psi		
7/8	Unique	Win 209	RXP 20	15.0 grs 8700 psi	16.0 grs 9000 psi		
7/8	Unique	Win 209	WAA 20F1	15.0 grs 11000 psi	15.5 grs 11200 psi		
7/8	Herco	Win 209	CB 1078-20	16.0 grs 10500 psi	16.5 grs 11000 psi		
7/8	Herco	Win 209	WAA 20F1	16.0 grs 11000 psi			
1	Herco	Win 209	RXP 20	16.5 grs 9600 psi			
1	Herco	Win 209	SP 20	16.5 grs 10000 psi			
1	20/28	Win 209	RXP 20		16.5 grs 11620psi		
1	Blue Dot	Win 209	RXP 20			23.0 grs 11300 psi	
1	Blue Dot	Win 209	SP 20			23.5 grs 11400 psi	
1	Blue Dot	Win 209	WAA 20F1			23.0 grs 11500 psi	

20 Gauge Shotshell Load Data continued

			20 Gauge 2 3/4 in	ich Federal® Pla	astic Target She	ells	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	ssure (psi)
(oz)				1155 fps	1200 fps	1250 fps	1290 fps
7/8	20/28	Fed 209A	20\$1		16.5 grs 8370 psi	17.2 grs 8970 psi	
7/8	20/28	Fed 209A	Windjammer		16.5 grs 8210 psi	17.5 grs 8690 psi	
7/8	20/28	CCI 209	20S1		16.0 grs 8350 psi		
7/8	20/28	CCI 209	RXP 20			17.5 grs 10210 psi	
7/8	20/28	CCI 209	Windjammer		17.0 grs 8060 psi	18.0 grs 8480 psi	
7/8	Green Dot	Fed 209A	Versalite		15.5 grs 11470 psi		
7/8	Green Dot	Fed 209A	Windjammer		15.5 grs 11350 psi		
7/8	Green Dot	Fed 209A	WAA 20		15.0 grs 10960 psi		
7/8	Green Dot	CCI 209M	20S1	14.5 grs 9100 psi	16.5 grs 9300 psi		
7/8	Unique	Fed 209A	RXP 20		16.5 grs 9170 psi		
7/8	Unique	Fed 209A	Windjammer		17.0 grs 9880 psi		
7/8	Unique	Fed 209A	WAA 20		16.5 grs 9450 psi		
7/8	Unique	Fed 209A	Versalite		17.0 grs 9990 psi		
7/8	Unique	CCI 209M	20S1	16.0 grs 8700 psi	17.0 grs 9100 psi		
7/8	Herco	Fed 209A	WAA 20		17.5 grs 10070 psi		
7/8	Herco	Fed 209A	RXP 20		17.5 grs 9420 psi		
7/8	Herco	Fed 209A	Windjammer		18.0 grs 9880 psi		
7/8	Herco	CCI 209M	20S1		17.5 grs 7600 psi	18.5 grs 9800 psi	
			20 Gauge 2 3/4 in	ch Remington P	lastic Shells (S	STS)	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	essure (psi)
(oz)				1300 fps	1350 fps	1400 fps	1425 fps
7/8	Pro Reach	Rem 209A	Orange Duster	20.2 grs 8380 psi	20.9 grs 8760 psi		22.4 grs 11220 psi
			20 Gauge 2 3/4 inc	h Winchester A	A-HS Plastic S	hells	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	essure (psi)
(oz)				1300 fps	1350 fps	1400 fps	1425 fps
7/8	Pro Reach	Win 209	20S1		19.2 grs 11180 ps		
7/8	Pro Reach	Win 209	RXP 20			21.0 grs 10990 psi	
7/8	Pro Reach	Win 209	Orange Duster	18.9 grs 10720 psi	19.5 grs 10960 psi		
7/8	Pro Reach	Cheddite	Orange Duster	18.8 grs 10420 psi	19.3 grs 11320 psi		
			20 Gauge 2 3/4 in	ich Federal® Pla	astic Target She	ells	
Shot	Powder	Primer	Wad	Charge We	eight (grains) / Ve	locity (fps) & Pre	essure (psi)
(oz)				1300 fps	1350 fps	1400 fps	1425 fps
7/8	Pro Reach	Fed 209A	RXP 20				22.8 grs 11090 p
7/8	Pro Reach	Fed 209A	Win AA20	20.1 grs 7970 psi	21.4 grs 9270 psi	21.9 grs 10830 psi	
	Pro Reach	Fed 209A	20S1	20.1 grs 8490 psi	20.9 grs 9280 psi	22.0 grs 11140 psi	

			28 GAUGE SHOTS	HELL LOAD DATA						
	2	8 Gauge 2 3	/4 inch Remington	Plastic Shells (S	TS, Premier)					
Shot (oz)	Powder	Primer	Wad	Charge Weight(ç	grains)/ Velocity (fps)	& Pressure (psi)				
				1200 fps	1250 fps	1290 fps				
3/4	20/28	Rem 209P	PT-28	12.8 grs 11830 psi						
3/4	20/28	Rem 209P	Duster 2834	12.8 grs 11200 psi	13.1 grs 12360 psi					
3/4	20/28	Rem 209P	CB 5034-HS	12.4 grs 11620 psi						
3/4	Unique	Rem 209P	PT-28	13.3 grs 11260 psi						
3/4	Unique	Rem 209P	28S1	13.2 grs 11520 psi						
3/4	Unique	Rem 209P	Duster 2834	14.0 grs 9600 psi						
3/4	Unique	Rem 209P	PC	14.0 grs 11200 psi						
3/4	Herco	Win 209	PT-28	13.9 grs 11700 psi						
3/4	Herco	Rem 209P	PT-28	14.5 grs 11360 psi						
3/4	Herco	Rem 209P	28S1	14.0 grs 11030 psi						
3/4	Herco	Rem 209P	Duster 2834	14.8 grs 9600 psi						
3/4	Herco	Rem 209P	PC	14.5 grs 10800 psi						
28 Gauge 2 3/4 inch Winchester AA (HS) Plastic Shells										
Shot (oz)	Powder	Primer	Wad	Charge Weight(g	grains)/ Velocity (fps)	& Pressure (psi)				
				1200 fps	1250 fps	1290 fps				
3/4	20/28	Win 209	Duster 2834	13.0 grs 9880 psi	14.0 grs 11110 psi					
3/4	20/28	Win 209	CB 5034-HS	13.0 grs 10580 psi	13.5 grs 11690 psi					
3/4	20/28	Win 209	PT-28	13.2 grs 10550 psi	14.1 grs 12160 psi					
3/4	20/28	Win 209	Win AA -HS	13.0 grs 11670 psi						
3/4	Unique	Win 209	Win AA -HS	13.1 grs 11300 psi						
3/4	Herco	Win 209	Win AA -HS	14.0 grs 10900 psi						
		28 Gaug	e 2 3/4 inch Remin	igton Plastic Shel	ls (STS)					
Shot (oz)	Powder	Primer	Wad	Charge Weight(ç	grains)/ Velocity (fps)	& Pressure (psi)				
				1300 fps	1350 fps	1400fps				
3/4	Pro Reach	Rem 209P	Duster 2834	15.8 grs 10110 psi	16.8 grs 11370 psi					
3/4	Pro Reach	Rem 209P	PT 28	15.7 grs 11540 psi						
3/4	Pro Reach	Cheddite	Duster 2834	15.9 grs 10420 psi	16.6 grs 11580 psi					
3/4	Pro Reach	Cheddite	PT 28	15.7 grs 10860 psi	16.1 grs 11750 psi					
		28 Gauge	2 3/4 inch Winche	ester AA-HS Plast	ic Shells					
Shot (oz)	Powder	Primer	Wad	Charge Weight(g	grains)/ Velocity (fps)	& Pressure (psi)				
				1300 fps	1350 fps	1400fps				
3/4	Pro Reach	Cheddite	Duster 2834	16.4 grs 8540 psi	17.2 grs 9980 psi					
3/4	Pro Reach	Cheddite	CB 1034	17.0 grs 8640 psi						
3/4	Pro Reach	Win 209	Duster 2834		17.5 grs 9790 psi	18.0 grs 11560 psi				
3/4	Pro Reach	Win 209	CB 1034	17.0 grs 9030 psi	17.5 grs 10550 psi					

28 Gauge Shotshell Load Data continued

28 Gauge 2 3/4 inch Federal® Plastic Target Shells									
Shot (oz)	Powder	Primer	Wad	Charge Weight(grains)/ Velocity (fps) & Pressure (psi)					
				1300 fps	1350 fps	1400fps			
3/4	Pro Reach	Cheddite	Duster 2834	16.4 grs 8230 psi	17.1 grs 10090 psi				
3/4	Pro Reach	Cheddite	28S1	16.0 grs 11080 psi	16.5 grs 11770 psi				
3/4	Pro Reach	Fed 209A	Duster 2834	16.2 grs 9370 psi	16.8 grs 10670 psi				
3/4	Pro Reach	Fed 209A	28S1	15.9 grs 11780 psi	16.1 grs 12040 psi				

	410 BORE SHOTSHELL LOAD DATA									
410 Bore 2 1/2 inch Remington Plastic Shells (STS, Premier)										
Shot (oz)	Powder	Primer	Wad	Charge Weight(grains)/ Velocity (fps) & Pressure (psi)				
				1200 fps	1230 fps					
1/2	410	Rem 209 STS	SP410	12.0 grs 9500 psi	12.7 grs 9700 psi					
1/2	410	Rem 209 STS	Fed 410 SC	12.2 grs 10700 psi						
1/2	410	Rem 209 STS	WAA41	12.3 grs 8800 psi						
1/2	410	Rem 209 STS	CB 1050-41	12.3 grs 8700 psi						
1/2	410	Rem 209 STS	Duster 4150		12.8 grs 9900 psi					
1/2	410	CCI 209M	SP410	12.2 grs 9800 psi						
1/2	2400	CCI 209M	SP410	13.5 grs 11000 psi						
	410 Bore 2 1/2 inch Winchester AA Plastic Shells									
1/2	410	CCI 209M	WAA41	11.5 grs 11100 psi	11.9 grs 11800 psi					
1/2	410	Win 209	CB 1050-41	11.5 grs 10100 psi	11.9 grs 10900 psi					
1/2	410	Win 209	Duster 4150	11.4 grs 11100 psi						
1/2	410	Win 209	SP410	11.5 grs 10800 psi						
1/2	2400	Win 209	WAA41	13.0 grs 11700 psi						
		410 Bore 2	2 1/2 inch Winche	ster AA (HS) Pla	stic Shells					
1/2	410	Win 209	Fed 209 SC	12.5 grs 10415 psi						
1/2	410	Win 209	Win AA41HS	12.0 grs 10570 psi						
1/2	410	Win 209	Duster 4150	12.0 grs 10740 psi						
		410 Bor	e 2 1/2 inch Feder	al® Plastic Targe	et Shells					
1/2	410	CCI 209M	Fed 410 SC	11.5 grs 10600 psi						
1/2	410	Fed 209A	WAA41	11.5 grs 10500 psi	11.8 grs 11500 psi	1/16" spacer require				
1/2	410	Fed 209A	CB 1050-41	11.5 grs 10500 psi	11.8 grs 11400 psi	1/16" spacer required				
1/2	410	Fed 209A	Duster 4150	11.5 grs 10000 psi	11.9 grs 11800 psi					
1/2	410	Fed 209A	SP410	11.5 grs 10700 psi	11.8 grs 11800 psi	1/16" spacer require				
1/2	410	Fed 209A	Fed 410 SC	11.5 grs 10500 psi	11.9 grs 12000 psi					

CENTERFIRE METALLIC LOADS

	COWBO	Y ACTION HA	NDGUN LOAD DA	ΤΑ		
		32 S&W	Long			
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Wgt	Velocity
					grains	fps
90 gr RCBS mould # 82303	Bullseye	CCI 500	Remington	1.190"	2.3	794
90 gr RCBS mould # 82303	Red Dot	CCI 500	Remington	1.190"	2.3	769
98 gr RCBS mould # 82061	Bullseye	CCI 500	Remington	1.280"	2.3	770
98 gr RCBS mould # 82061	Unique	CCI 500	Remington	1.280"	2.8	769
98 gr RCBS mould # 82061	2400	CCI 500	Remington	1.280"	5.6	801
		32-20	Win			
98 gr RCBS mould # 82061	Bullseye	CCI 500	Starline	1.530"	2.9	937
98 gr RCBS mould # 82061	Unique	CCI 500	Starline	1.530"	3.5	969
98 gr RCBS mould # 82061	Power Pistol	CCI 500	Starline	1.530"	4.4	1033
		38 Spe	cial			
125 gr Oregon Trails lead	Bullseye	Rem 1 1/2	Remington	1.450"	4.8	1024
125 gr Oregon Trails lead	American Select	Rem 1 1/2	Remington	1.450"	4.7	989
125 gr Meister RNFP	Red Dot	Rem 1 1/2	Remington	1.450"	4.6	1025
125 gr Meister RNFP	Unique	Rem 1 1/2	Remington	1.450"	6.0	1075
140 gr Hornady FP lead	Bullseye	Rem 1 1/2	Remington	1.450"	4.5	945
140 gr Hornady FP lead	Red Dot	Rem 1 1/2	Remington	1.450"	4.5	960
140 gr Hornady FP lead	American Select	Rem 1 1/2	Remington	1.450"	4.5	988
140 gr Hornady FP lead	Unique	Rem 1 1/2	Remington	1.450"	5.5	985
147 gr RCBS mould # 82077	Bullseye	CCI 500	Speer	1.530"	3.5	838
147 gr RCBS mould # 82077	Red Dot	CCI 500	Speer	1.530"	3.4	794
147 gr RCBS mould # 82077	Unique	CCI 500	Speer	1.530"	4.6	820
		357 N	lag			
125 gr Oregon Trails lead	American Select	Fed 100	Remington	1.580"	3.9	856
140 gr Hornady FP lead	American Select	Fed 100	Remington	1.540"	3.6	825
140 gr Hornady FP lead	Unique	Fed 100	Remington	1.540"	4.0	820
158 gr RN lead	American Select	Fed 100	Remington	1.585"	4.0	840
158 gr RN lead	Unique	Fed 100	Remington	1.585"	4.5	859
		38-40	Win			
180 gr RCBS mould # 82306	Bullseye	CCI 300	Winchester	1.575"	5.3	810
180 gr RCBS mould # 82306	Red Dot	CCI 300	Winchester	1.575"	5.2	817
180 gr RCBS mould # 82306	American Select	CCI 300	Winchester	1.575"	5.2	788
180 gr RCBS mould # 82306	Unique	CCI 300	Winchester	1.575"	7.4	846

Cowboy Action Handgun Load Data continued

		44 Russi	an					
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Wgt	Velocity		
					grains	fps		
200 gr RCBS mould # 82307	Bullseye	CCI 300	Starline	1.245"	4.0	826		
200 gr RCBS mould # 82307	Red Dot	CCI 300	Starline	1.245"	3.8	796		
200 gr RCBS mould # 82307	American Select	CCI 300	Starline	1.245"	3.7	763		
200 gr RCBS mould # 82307	Unique	CCI 300	Starline	1.245"	5.4	887		
44 S&W Special								
200 gr RCBS mould # 82307	Bullseye	CCI 300	Remington	1.435"	6.4	1032		
200 gr RCBS mould # 82307	Red Dot	CCI 300	Remington	1.435"	6.0	999		
200 gr RCBS mould # 82307	American Select	CCI 300	Remington	1.435"	5.8	933		
200 gr RCBS mould # 82307	Unique	CCI 300	Remington	1.435"	8.7	1143		
		44-40 W	in					
200 gr RCBS mould # 82307	Bullseye	CCI 300	Remington	1.580"	6.1	885		
200 gr RCBS mould # 82307	Red Dot	CCI 300	Remington	1.580"	5.9	866		
200 gr RCBS mould # 82307	American Select	CCI 300	Remington	1.580"	6.0	856		
200 gr RCBS mould # 82307	Unique	CCI 300	Remington	1.580"	8.6	951		
		45 S&W Sch	ofield					
230 gr RCBS mould # 82308	Bullseye	CCI 300	Starline	1.410"	4.3	697		
230 gr RCBS mould # 82308	American Select	CCI 300	Starline	1.410"	4.3	707		
230 gr RCBS mould # 82308	Unique	CCI 300	Starline	1.410"	6.1	728		
45 Colt								
230 gr RCBS mould # 82308	Bullseye	CCI 300	Winchester	1.585"	6.0	815		
230 gr RCBS mould # 82308	American Select	CCI 300	Winchester	1.585"	6.0	782		
230 gr RCBS mould # 82308	Unique	CCI 300	Winchester	1.585"	8.5	850		

PISTOL/REVOLVER LOAD DATA								
221 Fireball								
Cartridge/Bullet	Powder	Primer	Case	0AL	Max Chg	Velocity		
					grains	fps		
45 gr Speer	2400	CCI 400	Remington	1.830"	15.0	2762		
45 gr Speer	Reloder 7	CCI 400	Remington	1.830"	18.3	2775		
50 gr Speer TNT	2400	CCI 400	Remington	1.830"	14.5	2693		
50 gr Speer TNT	Reloder 7	CCI 400	Remington	1.830"	17.9	2638		
52 gr Speer HP	2400	CCI 400	Remington	1.830"	14.3	2607		
52 gr Speer HP	Reloder 7	CCI 400	Remington	1.830"	17.7	2606		
25 Auto								
35 gr Speer HP	Bullseye	CCI 500	Speer	.870"	1.7	1040		
50 gr Speer TMJ RN	Bullseye	CCI 500	Speer	.870"	1.3	812		

		32 Aut	D						
Cartridge/Bullet	Powder	Primer	Case	OAL	Max chg	Velocity			
					grains	fps			
60 gr Speer GDHP	Bullseye	CCI 500	Speer	.940"	2.6	1030			
60 gr Speer GDHP	Unique	CCI 500	Speer	.940"	3.2	971			
60 gr Speer GDHP	Power Pistol	CCI 500	Speer	.940"	3.6	1030			
32 S&W Long									
98 gr HBWC	Bullseye	CCI 500	Remington	.920"	1.8	777			
32 H&R Magnum									
98 gr HBWC	Bullseye	CCI 500	Federal	.940"	3.9	1162			
85 gr Speer JHP	Unique	CCI 500	Federal	1.340"	4.7	1240			
100 gr Speer JHP	Bullseye	CCI 500	Federal	1.345"	3.6	1000			
100 gr Speer JHP	Unique	CCI 500	Federal	1.345"	4.4	1074			
100 gr Speer JHP	2400	CCI 500	Federal	1.345"	7.7	1091			
98 gr HBWC	Bullseye	CCI 500	Federal	1.075	2.3	810			
		380 Aut	0						
90 gr Speer GDHP	Bullseye	CCI 500	Winchester	.970"	3.4	981			
90 gr Speer GDHP	Unique	CCI 500	Winchester	.970"	4.6C	1034			
90 gr Speer GDHP	Power Pistol	CCI 500	Winchester	.970"	4.8C	1020			
		9mm Luç	jer						
115 gr Speer GDHP	Bullseye	CCI 500	Speer	1.125"	4.7	1144			
115 gr Speer GDHP	Am. Select	CCI 500	Speer	1.125"	5.4	1102			
115 gr Speer GDHP	Unique	CCI 500	Speer	1.125"	6.3	1244			
115 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.125"	6.7	1212			
115 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.125"	8.5	1258			
124 gr Speer GDHP	Bullseye	CCI 500	Speer	1.120"	4.4	1059			
124 gr Speer GDHP	Am. Select	CCI 500	Speer	1.120"	5.0	1053			
124 gr Speer GDHP	Unique	CCI 500	Speer	1.120"	5.8	1180			
124 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.120"	7.9	1238			
147 gr Speer GDHP	Unique	CCI 500	Speer	1.130"	4.3	954			
147 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.130"	5.0	975			
147 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.130"	5.8	1001			
		357 SIG	3						
125 gr Speer GDHP	Unique	CCI 500	Speer	1.135"	8.0	1344			
125 gr Speer GDHP	Herco	CCI 500	Speer	1.135"	8.1	1277			
125 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.135"	11.0C	1416			
147 gr Speer GDHP	Unique	CCI 500	Speer	1.135"	6.6	1101			
147 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.135"	7.5	1152			
147 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.135"	8.8	1218			

Pistol/Revolver Load Data continued

		38 Super A	uto +P			
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity
					grains	fps
115 gr Speer GDHP	Herco	CCI 500	Winchester	1.260"	7.8C	1276
115 gr Speer GDHP	Blue Dot	CCI 500	Winchester	1.260"	10.0C	1362
124 gr Speer GDHP	Bullseye	CCI 500	Winchester	1.260"	5.2	1158
124 gr Speer GDHP	Unique	CCI 500	Winchester	1.260"	6.2	1208
124 gr Speer GDHP	Herco	CCI 500	Winchester	1.260"	7.3	1272
124 gr Speer GDHP	Blue Dot	CCI 500	Winchester	1.260"	9.2	1312
		38 Spec	ial			
148 gr Speer HBWC	Bullseye	CCI 500	Speer	Flush	3.1	799
148 gr Speer HBWC	Red Dot	CCI 500	Speer	Flush	3.0	806
158 gr Speer LSWC	Bullseye	CCI 500	Speer	1.440"	3.5	814
158 gr Speer LSWC	Red Dot	CCI 500	Speer	1.440"	3.4	793
158 gr Speer LSWC	Unique	CCI 500	Speer	1.440"	4.7	815
158 gr Speer LSWC	Power Pistol	CCI 500	Speer	1.440"	5.4	948
110 gr Speer GDHP	Bullseye	CCI 500	Speer	1.455"	4.6	990
110 gr Speer GDHP	American Select	CCI 500	Speer	1.455"	4.3	887
110 gr Speer GDHP	Unique	CCI 500	Speer	1.455"	5.8	1065
110 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.455"	6.6	1074
125 gr Speer GDHP	Bullseye	CCI 500	Speer	1.440"	4.5	914
125 gr Speer GDHP	American Select	CCI 500	Speer	1.440"	4.1	839
125 gr Speer GDHP	Unique	CCI 500	Speer	1.440"	5.7	980
125 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.440"	6.1	986
		38 Specia	al +P			
158 gr Speer LSWC	Bullseye	CCI 500	Speer	1.440"	3.9	874
158 gr Speer LSWC	Red Dot	CCI 500	Speer	1.440"	3.8	846
158 gr Speer LSWC	Unique	CCI 500	Speer	1.440"	5.2	919
158 gr Speer LSWC	Power Pistol	CCI 500	Speer	1.440"	6.0	1037
110 gr Speer GDHP	Bullseye	CCI 500	Speer	1.445"	5.2	1098
110 gr Speer GDHP	American Select	CCI 500	Speer	1.445"	4.8	967
110 gr Speer GDHP	Unique	CCI 500	Speer	1.445"	6.3	1117
110 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.445"	7.4	1192
125 gr Speer GDHP	Bullseye	CCI 500	Speer	1.440"	4.8	1021
125 gr Speer GDHP	American Select	CCI 500	Speer	1.440"	4.7	931
125 gr Speer GDHP	Unique	CCI 500	Speer	1.440"	6.0	1082
125 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.440"	6.8	1082
135 gr Speer GDHP	Unique	CCI 500	Speer	1.450"	5.2	988
135 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.450"	6.4	1065
146 gr JHP-SWC	Unique	CCI 500	Speer	1.370"	5.1	957

65

C = Compressed Charge continued continued C = Compressed Charge

		38 Specia	I +P continued					
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity		
					grains	fps		
146 gr JHP-SWC	Power Pistol	CCI 500	Speer	1.370"	5.5	935		
146 gr JHP-SWC	Blue Dot	CCI 500	Speer	1.370"	7.1	1000		
146 gr JHP-SWC	2400	CCI 500	Speer	1.370"	9.0	952		
		357 Magn	ium					
158 gr Speer LSWC	Bullseye	CCI 500	Speer	1.570"	4.8	939		
158 gr Speer LSWC	Unique	CCI 500	Speer	1.570"	6.0	1034		
110 gr Speer UCHP	Bullseye	CCI 500	Speer	1.575"	8.7	1403		
110 gr Speer UCHP	Unique	CCI 500	Speer	1.575"	9.7	1447		
110 gr Speer UCHP	Power Pistol	CCI 500	Speer	1.575"	10.5	1451		
110 gr Speer UCHP	Blue Dot	CCI 500	Speer	1.575"	16.0	1680		
110 gr Speer UCHP	2400	CCI 500	Speer	1.575"	19.5	1670		
125 gr Speer GDHP	Power Pro 300MP	Fed 100	Federal	1.580"	22.3C	2000		
125 gr Speer GDHP	Unique	CCI 500	Speer	1.580"	9.6	1343		
125 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.580"	10.5	1345		
125 gr Speer GDHP	2400	CCI 500	Speer	1.580"	17.5	1409		
135 gr Speer GDHP	Unique	CCI 500	Speer	1.590"	7.8	1185		
135 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.590"	9.6	1291		
135 gr Speer GDHP	2400	CCI 500	Speer	1.590"	16.0	1377		
140 gr Speer UCHP	Unique	CCI 500	Speer	1.560"	8.0	1185		
140 gr Speer UCHP	Power Pistol	CCI 500	Speer	1.560"	9.5	1288		
140 gr Speer UCHP	Blue Dot	CCI 500	Speer	1.560"	11.5	1324		
140 gr Speer UCHP	2400	CCI 500	Speer	1.560"	15.1	1298		
158 gr Speer UCSP	Power Pro 300MP	Fed 100	Federal	1.570"	18.6	1690		
158 gr Speer GDHP	Unique	CCI 500	Speer	1.575"	7.7	1040		
158 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.575"	8.5	1078		
158 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.575"	10.2	1188		
158 gr Speer GDHP	2400	CCI 500	Speer	1.575"	14.8	1265		
170gr Speer GDSP	Power Pro 300MP	Fed 100	Federal	1.59″	17.5	1620		
170gr Speer GDSP	Blue Dot	CCI 500	Speer	1.590"	9.4	1002		
170gr Speer GDSP	2400	CCI 500	Speer	1.590"	14.5	1166		
40 S&W								
155 gr Speer GDHP	Bullseye	CCI 500	Speer	1.120"	6.0	1023		
155 gr Speer GDHP	American Select	CCI 500	Speer	1.120"	5.6	1001		
155 gr Speer GDHP	Unique	CCI 500	Speer	1.120"	8.0	1207		
155 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.120"	9.0	1213		
155 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.120"	11.0	1221		

Pistol/Revolver Load Data continued

40 S&W continued									
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity			
					grains	fps			
165 gr Speer GDHP	Bullseye	CCI 500	Speer	1.120"	5.8	1022			
165 gr Speer GDHP	Unique	CCI 500	Speer	1.120"	7.2	1064			
165 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.120"	7.8	1081			
180 gr Speer GDHP	Bullseye	CCI 500	Speer	1.120"	5.5	929			
180 gr Speer GDHP	American Select	CCI 500	Speer	1.120"	5.1	865			
180 gr Speer GDHP	Unique	CCI 500	Speer	1.120"	6.7	1000			
180 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.120"	7.2	1013			
180 gr Speer GDHP	Blue Dot	CCI 500	Speer	1.120"	8.9	1018			
		10mm A	uto						
155 gr Speer GDHP	Unique	CCI 300	Hornady	1.250"	8.5	1246			
155 gr Speer GDHP	Blue Dot	CCI 300	Hornady	1.250"	12	1291			
165 gr Speer GDHP	Unique	CCI 300	Hornady	1.255"	8.3	1194			
165 gr Speer GDHP	Power Pistol	CCI 300	Hornady	1.255"	10.0	1314			
165 gr Speer GDHP	Blue Dot	CCI 300	Hornady	1.255"	11.5	1273			
180 gr Speer GDHP	Unique	CCI 300	Hornady	1.250"	8.0	1138			
180 gr Speer GDHP	Blue Dot	CCI 300	Hornady	1.250"	11.0	1295			
180 gr Speer GDHP	2400	CCI 300	Hornady	1.250"	12.8	1214			
		41 Rem Ma	gnum						
200 gr Speer JHP-SWC	Unique	CCI 300	Winchester	1.590"	9.0	1181			
200 gr Speer JHP-SWC	2400	CCI 300	Winchester	1.590"	16.8	1311			
210 gr Speer GDHP	Unique	CCI 300	Winchester	1.575"	9.7	1123			
210 gr Speer GDHP	2400	CCI 300	Winchester	1.575"	19.0	1223			
		44 S&W Sp	ecial						
225 gr cast SWC GC	Bullseye	CCI 300	Remington	1.500"	5.5	903			
225 gr cast SWC GC	Unique	CCI 300	Remington	1.500"	7.8	1043			
225 gr cast SWC GC	Power Pistol	CCI 300	Remington	1.500"	7.7	952			
240 gr Speer LSWC	Bullseye	CCI 300	Remington	1.475"	5.2	793			
240 gr Speer LSWC	Unique	CCI 300	Remington	1.475"	6.3	820			
250 gr cast (Keith)	Bullseye	CCI 300	Remington	1.580"	5.3	835			
250 gr cast (Keith)	Unique	CCI 300	Remington	1.580"	6.9	921			
250 gr cast (Keith)	Power Pistol	CCI 300	Remington	1.580"	8.0	954			
250 gr cast (Keith)	2400	CCI 300	Remington	1.580"	13.0	965			
200 gr Speer GSHP	Bullseye	CCI 300	Remington	1.490"	5.9	884			
200 gr Speer GSHP	Red Dot	CCI 300	Remington	1.490"	5.9	868			
200 gr Speer GSHP	American Select	CCI 300	Remington	1.490"	5.7	821			
200 gr Speer GSHP	Unique	CCI 300	Remington	1.490"	7.8	855			

		44 S&W Sp	ecial continued						
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity			
					grains	fps			
200 gr Speer GSHP	Power Pistol	CCI 300	Remington	1.490"	8.6	976			
240 gr Speer JHP	Unique	CCI 300	Remington	1.465"	7.6	836			
240 gr Speer JHP	Power Pistol	CCI 300	Remington	1.465"	7.6	819			
240 gr Speer JHP	Blue Dot	CCI 300	Remington	1.465"	10.2	871			
44 Rem Magnum									
225 gr cast SWC GC	225 gr cast SWC GC Unique CCI 300 Speer 1.635" 11.0 1								
225 gr cast SWC GC	2400	CCI 300	Speer	1.635"	21.0	1482			
240 gr cast LSWC	Bullseye	CCI 300	Speer	1.605"	6.0	894			
240 gr cast LSWC	Red Dot	CCI 300	Speer	1.605"	6.5	905			
240 gr cast LSWC	Green Dot	CCI 300	Speer	1.605"	7.0	901			
240 gr cast LSWC	Unique	CCI 300	Speer	1.605"	7.0	899			
250 gr cast (Keith)	Unique	CCI 300	Speer	1.710"	11.0	1211			
250 gr cast (Keith)	2400	CCI 300	Speer	1.710"	20.0	1390			
200 gr Speer Mag HP	Power Pro 300MP	Fed 150	Federal	1.590"	29.0	1760			
200 gr Speer Mag JHP	Unique	CCI 300	Speer	1.590"	12.4	1399			
200 gr Speer Mag JHP	Power Pistol	CCI 300	Speer	1.590"	15.5	1573			
200 gr Speer Mag JHP	Blue Dot	CCI 300	Speer	1.590"	16.0	1495			
200 gr Speer Mag JHP	2400	CCI 300	Speer	1.590"	24.0	1589			
210 gr Speer GDHP	Unique	CCI 300	Speer	1.600"	12.5	1392			
210 gr Speer GDHP	Power Pistol	CCI 300	Speer	1.600"	14.5	1504			
210 gr Speer GDHP	2400	CCI 300	Speer	1.600"	23.5	1566			
225 gr Speer JHP-SWC	2400	CCI 300	Speer	1.575"	21.4	1526			
240 gr Speer GDSP	Power Pro 300MP	Fed 150	Federal	1.575″	25.0	1570			
240 gr Speer GDHP	Unique	CCI 300	Speer	1.575"	10.3	1175			
240 gr Speer GDHP	Blue Dot	CCI 300	Speer	1.575"	13.7	1285			
240 gr Speer GDHP	2400	CCI 300	Speer	1.575"	21.0	1434			
270 gr Speer GDSP	Power Pro 300MP	Fed 150	Federal	1.585″	22.0	1400			
270 gr Speer GDHP	2400	CCI 300	Speer	1.585"	17.5	1182			
300 gr Speer UCSP	Power Pro 300MP	Fed 150	Federal	10665″	22.0	1350			
300 gr Speer UCSP	2400	CCI 300	Speer	1.665"	19.0	1088			
		45 G.A.	Р.						
185 gr Speer GDHP	Bullseye	CCI 500	Speer	1.070"	6.1	1037			
185 gr Speer GDHP	Unique	CCI 500	Speer	1.070"	7.7	1009			
185 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.070"	7.8	993			
200 gr Speer GDHP	Bullseye	CCI 500	Speer	1.070"	5.4	943			
200 gr Speer GDHP	Unique	CCI 500	Speer	1.070"	6.8	988			
200 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.070"	7.6	977			

Pistol/Revolver Load Data continued

45 G.A.P. continued							
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity	
					grains	fps	
200 gr Speer GDHP	Unique	CCI 500	Speer	1.070"	6.8	988	
200 gr Speer GDHP	Power Pistol	CCI 500	Speer	1.070"	7.6	977	
		4	5 Auto				
200 gr SpeerLSWC	Bullseye	CCI 300	Speer	1.190"	4.6	807	
200 gr SpeerLSWC	Red Dot	CCI 300	Speer	1.190"	4.5	831	
200 gr Speer LSWC	Unique	CCI 300	Speer	1.190"	5.4	790	
230 gr Speer LRN	Red Dot	CCI 300	Speer	1.270"	5.1	841	
230 gr Speer LRN	Green Dot	CCI 300	Speer	1.270"	5.3	842	
230 gr Speer LRN	Unique	CCI 300	Speer	1.270"	5.8	849	
230 gr Speer LRN	Herco	CCI 300	Speer	1.270"	6.4	845	
185 gr Speer GDHP	Bullseye	CCI 300	Speer	1.200"	6.4	986	
185 gr Speer GDHP	American Select	CCI 300	Speer	1.200"	6.2	941	
185 gr Speer GDHP	Unique	CCI 300	Speer	1.200"	8.2	1015	
185 gr Speer GDHP	Power Pistol	CCI 300	Speer	1.200"	9.5	1047	
200 gr Speer GDHP	Bullseye	CCI 300	Speer	1.200"	5.8	934	
200 gr Speer GDHP	Unique	CCI 300	Speer	1.200"	7.3	984	
200 gr Speer GDHP	Power Pistol	CCI 300	Speer	1.200"	8.3	952	
200 gr Speer GDHP	Blue Dot	CCI 300	Speer	1.200"	10.5	1010	
230 gr Speer TMJ RN	Bullseye	CCI 300	Speer	1.260"	5.7	840	
230 gr Speer TMJ RN	Red Dot	CCI 300	Speer	1.260"	5.3	839	
230 gr Speer TMJ RN	Unique	CCI 300	Speer	1.260"	6.5	832	
230 gr Speer TMJ RN	Power Pistol	CCI 300	Speer	1.260"	8.1	916	
		45 Ca	olt				
200 gr Speer LSWC	Bullseye	CCI 300	Winchester	1.515"	7.5	988	
200 gr Speer LSWC	Red Dot	CCI 300	Winchester	1.515"	7.3	1001	
200 gr Speer LSWC	Green Dot	CCI 300	Winchester	1.515"	8.3	980	
200 gr Speer LSWC	Unique	CCI 300	Winchester	1.515"	9.5	1061	
200 gr Speer LSWC	Herco	CCI 300	Winchester	1.515"	9.5	1021	
250 gr Speer LSWC	Bullseye	CCI 300	Winchester	1.600"	7.0	879	
250 gr Speer LSWC	Unique	CCI 300	Winchester	1.600"	9.5	941	
250 gr Speer LSWC	Blue Dot	CCI 300	Winchester	1.600"	12.9	1028	
250 gr Speer LSWC	2400	CCI 300	Winchester	1.600"	15.4	972	
200 gr Speer GDHP	Bullseye	CCI 300	Winchester	1.555"	7.9	994	
200 gr Speer GDHP	Red Dot	CCI 300	Winchester	1.555"	7.6	981	
200 gr Speer GDHP	Green Dot	CCI 300	Winchester	1.555"	8.8	991	
200 gr Speer GDHP	Unique	CCI 300	Winchester	1.555"	9.8	1048	
200 gr Speer GDHP	Power Pistol	CCI 300	Winchester	1.555"	9.2	885	

70

45 Colt continued								
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity		
					grains	fps		
200 gr Speer GDHP	Herco	CCI 300	Winchester	1.555"	10.0	1032		
230 gr Speer GDHP	Bullseye	CCI 300	Winchester	1.600"	7.1	890		
230 gr Speer GDHP	Unique	CCI 300	Winchester	1.600"	9.0	932		
230 gr Speer GDHP	Power Pistol	CCI 300	Winchester	1.600"	9.5	878		
230 gr Speer GDHP	Herco	CCI 300	Winchester	1.600"	9.4	918		
230 gr Speer GDHP	Blue Dot	CCI 300	Winchester	1.600"	13.0	1036		
250 gr Speer GDHP	Unique	CCI 300	Winchester	1.600"	7.8	840		
250 gr Speer GDHP	Power Pistol	CCI 300	Winchester	1.600"	8.8	845		
250 gr Speer GDHP	2400	CCI 300	Winchester	1.600"	15.0	826		
260 gr Speer JHP	Bullseye	CCI 300	Winchester	1.590"	7.1	841		
260 gr Speer JHP	Power Pistol	CCI 300	Winchester	1.590"	8.4	852		
260 gr Speer JHP	Blue Dot	CCI 300	Winchester	1.590"	13.0	941		
		454 Cas	ull					
270 gr hard cast SWC	Unique	CCI 400	Starline	1.750"	11.0	1155		
270 gr hard cast SWC	Power Pistol	CCI 400	Starline	1.750"	11.0	1114		
250 gr Speer GDHP	2400	CCI 400	Starline	1.670"	26.0	1531		
260 gr Speer HP	Power Pro 300MP	Fed 205	Federal	1.670″	31.0	1665		
300 gr Speer UCSP	Power Pro 300MP	Fed 205	Federal	1.760″	29.5	1535		
300 gr Speer UCSP	2400	CCI 400	Winchester	1.760"	24.0	1325		
300 gr Speer GDHP	Power Pro 300MP	Fed 205	Federal	1.740″	31.0C	1740		
300 gr Speer GDHP	2400	CCI 400	Winchester	1.750"	27.0	1479		
		460 S&W	Mag					
250 gr Speer GDHP	Power Pistol	Fed 210	Hornady	2.090"	21.0	1514		
250 gr Speer GDHP	2400	Fed 210	Hornady	2.090"	31.0	1553		
260 gr Speer HP	Power Pro 300MP	Fed 210	Federal	2.090″	36.0	1835		
300 gr Speer UCSP	Power Pro 300MP	Fed210	Federal	2.170″	28.0	1610		
300 gr Speer UCSP	Power Pistol	Fed 210	Hornady	2.170"	20.0	1359		
300 gr Speer UCSP	2400	Fed 210	Hornady	2.170"	30.0	1551		
300 gr Speer GDHP	Power Pro 300MP	Fed 210	Federal	2.150″	38.0	1930		
300 gr Speer GDHP	Power Pistol	Fed 210	Hornady	2.150"	24.0	1525		
300 gr Speer GDHP	2400	Fed 210	Hornady	2.150"	36.0	1782		
480 Ruger								
275 gr Speer GDHP	Power Pro 300MP	Fed 150	Ruger	1.640″	38.0C	1910		
275 gr Speer GDHP	Unique	CCI 300	Hornady	1.640"	16.0	1400		
275 gr Speer GDHP	Power Pistol	CCI 300	Hornady	1.640"	17.5	1465		
275 gr Speer GDHP	2400	CCI 300	Hornady	1.640"	29.0	1560		
325 gr Speer GDSP	Power Pro 300MP	Fed 150	Ruger	1.650″	29.5C	1620		

Pistol/Revolver Load Data continued

480 Ruger continued								
Cartridge/Bullet	Powder	Primer	Case	OAL	Max Chg	Velocity		
					grains	fps		
325 gr Speer GDSP	Unique	CCI 300	Hornady	1.650"	13.0	1178		
325 gr Speer GDSP	2400	CCI 300	Hornady	1.650"	25.0	1435		
400 gr Speer GDSP	Power Pro 300MP	Fed 150	Ruger	1.650"	24.2C	1370		
400 gr Speer GDSP	2400	CCI 300	Hornady	1.650"	18.0	1081		
500 S&W Mag								
350 gr Speer UCSP	Power Pro 300MP	Fed 215	Starline	2.250″	49.0	2000		
350 gr Speer UCSP	Power Pistol	Fed 215	Starline	2.250"	27.0	1564		
350 gr Speer UCSP	2400	Fed 215	Starline	2.250"	42.0	1642		

CENTERFIRE RIFLE LOAD DATA								
.17 Remington								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Horn. 25 gr HP	Reloder 15	Rem 7 1/2	Remington	2.14	22.8	3915		
		.218 Be	е					
Speer 45 gr FNSP	2400	CCI 400	Winchester	1.655	8.3	2151		
		. 221 Fireb	pall					
Speer 40 gr SP	2400	Rem 7 1/2	Remington	1.8	15.5	2700		
Sierra 50 gr Spitzer	2400	Rem 7 1/2	Remington	1.8	13.8	2410		
Sierra 60 gr Spitzer	2400	Rem 7 1/2	Remington	1.825	13.3	2200		
Sierra 60 gr Spitzer	Reloder 7	Rem 7 1/2	Remington	1.825	18.1	2250		
		.22 Horr	iet					
Speer 33 gr TNT HP	2400	CCI 500	Winchester	1.68	11.5C	2985		
Hornady 40 gr V Max	Power Pro 300MP	Fed 205	Winchester	1.81	11.7C	2950		
Speer 40 gr SP	2400	CCI 500	Winchester	1.723	9.1	2557		
Speer 40 gr SP	Reloder 7	CCI 500	Winchester	1.723	11.0	2265		
Speer 45 gr SP	Power Pro 300MP	Fed 205	Winchester	1.723	11.5	2770		
Speer 45 gr SP	2400	CCI 500	Winchester	1.723	9.0	2506		
Speer 45 gr SP	Reloder 7	CCI 500	Winchester	1.723	10.6	2170		
.222 Remington								
Speer 40 gr SP	Reloder 7	CCI 400	Remington	2.04	22.0	3617		
Speer 40 gr SP	Reloder 10X	CCI 400	Remington	2.04	23.0	3346		
Speer 45 gr SP	Reloder 7	CCI 400	Remington	2.13	21.5	3424		
Speer 45 gr SP	Reloder 10X	CCI 400	Remington	2.13	22.0	3163		
Nosler 50 gr BT	Reloder 10X	Rem 6 1/2	Remington	2.11	21.0	3023		

.222 Remington continued									
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Speer 52 gr HP	Reloder 7	CCI 400	Remington	2.11	20.0	3115			
Speer 55 gr SP	Reloder 7	CCI 400	Remington	2.13	20.0	3045			
.223 Remington									
Speer 40 gr SP	Reloder 7	CCI 400	IMI	2.06	20.5	3011			
Speer 40 gr SP	Reloder 10X	CCI 400	IMI	2.06	24.5	3481			
Speer 45 gr SP	Reloder 7	CCI 400	IMI	2.155	20.0	3059			
Speer 45 gr SP	Reloder 10X	CCI 400	IMI	2.155	24.0	3292			
Nosler 50 gr BT	Reloder 10X	WSR	Winchester	2.2	24.2	3389			
Nosler 50 gr BT	Reloder 15	WSR	Winchester	2.2	28.0	3356			
Speer 52 gr HP	Reloder 7	CCI 400	IMI	2.2	20.5	2931			
Speer 52 gr HP	Reloder 10X	CCI 400	IMI	2.2	22.5	3179			
Speer 55 gr SP	Reloder 10X	CCI 400	IMI	2.175	23.0	3159			
Speer 62 gr FMJ	Reloder 15	CCI 400	IMI	2.255	25.0C	2832			
Sierra 69 gr HPBT	Reloder 15	Fed 205M	Winchester	2.26	25.5	2956			
Sierra 77 gr HPBT	Reloder 15	Fed 205M	Winchester	2.26	24.1	2783			
		22-250 Remi	ngton						
Speer 40 gr SP	Reloder 10X	CCI 200	Remington	2.235	35.5	4164			
Speer 40 gr SP	Reloder 15	CCI 200	Remington	2.235	40.0	4027			
Speer 45 gr SP	Reloder 10X	CCI 200	Remington	2.235	34.5	3974			
Speer 45 gr SP	Reloder 15	CCI 200	Remington	2.235	39.0	3897			
Hornady 50 gr V Max	Reloder 15	Win LRP	Remington	2.35	38.1	3916			
Speer 52 gr HP	Reloder 10X	CCI 200	Remington	2.35	33.0	3744			
Speer 52 gr HP	Reloder 15	CCI 200	Remington	2.35	37.5	3662			
Hornady 55 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.35	38.5	3730			
Hornady 55 gr V Max	Reloder 15	Win LRP	Remington	2.35	37.5	3775			
Hornady 55 gr V Max	Reloder 19	Win LRP	Remington	2.35	43.0	3540			
Speer 55 gr TBBC SP	Reloder 15	CCI 200	Remington	2.235	37.0	3621			
Speer 70 gr Semi-SP	Power Pro 2000MR	Fed 210	Federal	2.235	35.3	3290			
Speer 70 gr SP	Reloder 7	CCI 200	Remington	2.33	25.0	2753			
Speer 80 gr HPBT	Power Pro 2000MR	Fed 210	Federal	2.60	33.7	3070			
		220 Swi	ft						
Speer 40 gr SP	Reloder 15	CCI 200	Winchester	2.625	41.0	3996			
Speer 40 gr SP	Reloder 19	CCI 200	Winchester	2.625	46.0C	3746			
Speer 45 gr SP	Reloder 15	CCI 200	Winchester	2.65	41.5	4010			
Speer 45 gr SP	Reloder 19	CCI 200	Winchester	2.65	46.0C	3732			
Speer 52 gr HP	Reloder 15	CCI 200	Winchester	2.68	39.5	3742			
Speer 52 gr HP	Reloder 19	CCI 200	Winchester	2.68	46.0C	3645			

Centerfire Rifle Load Data continued

continued

220 Swift continued								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Hornady 55 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.68	41.0	3920		
Speer 55 gr SP	Reloder 15	CCI 200	Winchester	2.65	39.0	3656		
Speer 55 gr SP	Reloder 19	CCI 200	Winchester	2.65	46.0C	3710		
Speer 69 gr HPBT	Power Pro 2000MR	Fed 210	Federal	2.68	37.5	3390		
Speer 70 gr SP	Reloder 15	CCI 200	Winchester	2.57	36.0	3231		
Speer 70 gr SP	Reloder 19	CCI 200	Winchester	2.57	42.0C	3219		
Speer 80 gr HPBT	Power Pro 2000MR	Fed 210	Federal	2.875	35.6	3120		
		.223 WSS	SM					
Speer 50 gr SP	Power Pro 2000MR	Fed 215	Winchester	2.1	46.3	4040		
Speer 50 gr SP	Reloder 10X	Fed 210	Winchester	2.1	38.5	3929		
Speer 50 gr SP	Reloder 15	Fed 210	Winchester	2.1	44.5	4036		
Speer 55 gr HP-TNT	Power Pro 2000MR	Fed 210	Winchester	2.21	45.0	3860		
Speer 55 gr SP	Reloder 15	Fed 210	Winchester	2.21	42.5	3867		
Speer 55gr SP	Reloder 17	Fed 210	Winchester	2.21	46.6	3865		
Speer 55 gr SP	Reloder 19	Fed 210	Winchester	2.21	49.5C	3746		
Speer 70 gr Semi-SP	Power Pro 2000MR	Fed 215	Winchester	2.08	41.0	3450		
Speer 70 gr SP	Reloder 19	Fed 210	Winchester	2.08	45.5	3478		
Speer 70 gr SP	Reloder 22	Fed 210	Winchester	2.08	47.5	3523		
		6 mm PF	C					
Speer 75 gr HP	Reloder 7	CCI BR4	Sako	2.115	25.0	3011		
Speer 80 gr SP	Reloder 7	CCI BR4	Sako	2.115	24.5	2897		
Speer 85 gr BTSP	Reloder 7	CCI BR4	Sako	2.115	24.0	2863		
		243 Winch	ester					
Hornady 65 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.6	44.5	3710		
Speer 70 gr HP	Reloder 10X	Fed 210	Winchester	2.625	36.5	3421		
Speer 70 gr HP	Reloder 15	Fed 210	Winchester	2.625	43.5	3506		
Hornady 75 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.64	41.0	3440		
Hornady 75 gr V Max	Power Pro 4000MR	Fed 210	Federal	2.64	45.3C	3400		
Speer 75 gr HP	Reloder 10X	Fed 210	Winchester	2.59	36.0	3240		
Speer 75 gr HP	Reloder 15	Fed 210	Winchester	2.59	43.0	3400		
Speer 80 gr SP	Reloder 10X	Fed 210	Winchester	2.615	35.0	3162		
Speer 80 gr SP	Reloder 15	Fed 210	Winchester	2.615	41.5	3310		
Speer 80 gr SP	Reloder 17	Fed 210	Federal	2.615	44.0	3362		
Speer 80 gr SP	Reloder 19	Fed 210	Winchester	2.615	48.0C	3206		
Speer 85 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.625	40.0	3240		
Speer 85 gr BTSP	Power Pro 4000MR	Fed 210	Federal	2.625	45.5C	3310		
Speer 85 gr HP	Reloder 17	Fed 210	Federal	2.625	43.7	3316		

73

243 Winchester continued								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 85 gr BTSP	Reloder 10X	Fed 210	Winchester	2.625	35.0	3122		
Speer 85 gr BTSP	Reloder 15	Fed 210	Winchester	2.625	41.0	3218		
Speer 85 gr BTSP	Reloder 19	Fed 210	Winchester	2.625	48.0C	3182		
Speer 90 gr SP	Reloder 15	Fed 210	Winchester	2.625	38.0	3020		
Speer 90 gr SP	Reloder 19	Fed 210	Winchester	2.625	47.0C	3079		
Speer 90 gr SP	Reloder 22	Fed 210	Winchester	2.625	48.0C	3063		
Federal 95 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.65	35.0	2900		
Speer 100 gr BTSP	Reloder 15	Fed 210	Winchester	2.625	34.0	2691		
Speer 100 gr BTSP	Reloder 17	Fed 210	Federal	2.625	40.8	3044		
Speer 100 gr BTSP	Reloder 19	Fed 210	Winchester	2.625	43.5	2903		
Speer 100 gr BTSP	Reloder 22	Fed 210	Winchester	2.625	45.5	2966		
Hornady 105 gr V Max	Power Pro 4000MR	Fed 210	Federal	2.63	42.1C	2985		
		6 mm Remir	ngton					
Hornady 65 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.825	44.7	3690		
Speer 70 gr HP	Reloder 19	CCI 200	Remington	2.775	53.0C	3507		
Speer 70 gr HP	Reloder 17	Fed 210	Federal	2.775	48.5C	3682		
Speer 70 gr HP	Reloder 22	CCI 200	Remington	2.775	54.0C	3497		
Hornady 75 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.825	42.7	3480		
Hornady 75 gr V Max	Power Pro 4000MR	Fed 210	Federal	2.825	47.0C	3365		
Speer 75 gr HP	Reloder 19	CCI 200	Remington	2.775	52.0C	3440		
Speer 75 gr HP	Reloder 22	CCI 200	Remington	2.775	53.0C	3474		
Speer 80 gr SP	Reloder 17	Fed 210	Federal	2.775	46.7	3500		
Speer 80 gr SP	Reloder 19	CCI 200	Remington	2.75	51.0C	3368		
Speer 80 gr SP	Reloder 22	CCI 200	Remington	2.75	53.0C	3344		
Speer 85 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.775	41.8	3280		
Speer 85 gr BTSP	Power Pro 4000MR	Fed 210	Federal	2.775	47.0C	3300		
Speer 85 gr HP	Reloder 17	Fed 210	Federal	2.775	46.0	3441		
Speer 85 gr BTSP	Reloder 19	CCI 200	Remington	2.775	50.5C	3269		
Speer 85 gr BTSP	Reloder 22	CCI 200	Remington	2.775	52.0C	3285		
Speer 90 gr SP	Reloder 19	CCI 200	Remington	2.775	47.0	3063		
Speer 90 gr SP	Reloder 22	CCI 200	Remington	2.775	51.0C	3258		
Federal 95 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.84	36.5	2950		
Speer 100 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.775	40.0	3000		
Speer 100 gr BTSP	Reloder 17	Fed 210	Federal	2.800	44.0	3163		
Speer 100 gr BTSP	Reloder 19	CCI 200	Remington	2.78	45.0	2835		
Speer 100 gr BTSP	Reloder 22	CCI 200	Remington	2.78	47.0	2971		
Hornady 105 gr A Max	Power Pro 4000MR	Fed 210	Federal	2.81	44.0C	3025		

243 WSSM								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 70 gr HP	Reloder 15	Fed 210	Winchester	2.25	41.0	3478		
Speer 70 gr HP	Reloder 17	Fed 210	Winchester	2.185	49.0C	3745		
Speer 70 gr HP	Reloder 19	Fed 210	Winchester	2.25	49.5C	3464		
Speer 75 gr HP	Reloder 15	Fed 210	Winchester	2.165	41.0	3478		
Speer 75 gr HP	Reloder 19	Fed 210	Winchester	2.165	49.5C	3464		
Speer 80 gr SP	Reloder 15	Fed 210	Winchester	2.255	40.5	3386		
Speer 80 gr SP	Reloder 17	Fed 210	Winchester	2.255	44.5	3512		
Speer 80 gr SP	Reloder 19	Fed 210	Winchester	2.255	48.5C	3432		
Speer 85 gr HP	Reloder 17	Fed 210	Winchester	2.255	45.5	3452		
Speer 85 gr BTSP	Reloder 15	Fed 210	Winchester	2.255	39.0	3260		
Speer 85 gr BTSP	Reloder 19	Fed 210	Winchester	2.255	47.0C	3272		
Speer 90 gr SP	Reloder 19	Fed 210	Winchester	2.36	45.0	3218		
Speer 90 gr SP	Reloder 22	Fed 210	Winchester	2.36	46.5	3250		
Speer 100 gr BTSP	Reloder 17	Fed 210	Winchester	2.290	41.0	3128		
Speer 100 gr BTSP	Reloder 19	Fed 210	Winchester	2.36	40.5	2915		
Speer 100 gr BTSP	Reloder 22	Fed 210	Winchester	2.36	43.5	3004		
		257 Rol	erts					
Hornady 75 gr V Max	Power Pro 2000MR	Fed 210	Federal	2.78	45.5	3550		
Sierra 75 gr HP	Reloder 15	Win LRP	Winchester	2.775	41.8	3340		
Hornady 87 gr SP	Power Pro 2000MR	Fed 210	Federal	2.78	43.7	3290		
Speer 87 gr Spitzer	Reloder 15	Win LRP	Winchester	2.775	41.0	3185		
Speer 100 gr Spitzer	Reloder 19	Win LRP	Winchester	2.775	44.7	2930		
Speer 100 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.78	41.5	3055		
Sierra 120 gr BTHP	Reloder 22	Win LRP	Winchester	2.775	44.0	2785		
		25-06 Ren	nington					
Hornady 75 gr V Max	Power Pro 2000MR	Fed 210	Federal	3.1	50.5	3630		
Hornady 87 gr SP	Power Pro 2000MR	Fed 210	Federal	3.12	48.5	3400		
Speer 87 gr SP	Reloder 15	CCI 200	Remington	3.115	47.0	3268		
Speer 87 gr SP	Reloder 17	Fed 210	Federal	3.115	54.5	3547		
Speer 87 gr SP	Reloder 19	CCI 200	Remington	3.115	60.0C	3452		
Speer 100 gr BTSP	Power Pro 2000MR	Fed 210	Federal	3.095	47.5	3215		
Speer 100 gr SP	Reloder 19	CCI 200	Remington	3.095	57.0	3226		
Speer 100 gr SP	Reloder 22	CCI 200	Remington	3.095	58.0	3248		
Speer 100 gr SP	Reloder 25	CCI 200	Remington	3.095	60.0C	3224		
Speer 100 gr BTSP	Reloder 17	Fed 210	Federal	3.095	53.0	3390		
Speer 115 gr SP	Reloder 22	CCI 200	Remington	3.2	52.0	3054		
Speer 115 gr SP	Reloder 25	CCI 200	Remington	3.2	56.0	3155		

		25-06 Remingto	n continued			
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity
					Grains	fps
Speer 120 gr BTSP	Power Pro 4000MR	Fed 210	Federal	3.2	50.4	3020
Speer 120 gr BTSP	Reloder 17	Fed 210	Federal	3.2	48.5	3046
Sierra 120 gr BTSP	Reloder 22	CCI 200	Remington	3.2	52.0	2931
Sierra 120 gr BTSP	Reloder 25	CCI 200	Remington	3.2	58.0C	3071
		25 WSS	M			
Hornady 87 gr SP	Power Pro 2000MR	Fed 210	Winchester	2.315	46.0	3340
Speer 87 gr SP	Reloder 10X	CCI 200	Winchester	2.27	39.0	3313
Speer 87 gr SP	Reloder 15	CCI 200	Winchester	2.27	45.5	3428
Speer 87 gr SP	Reloder 17	Fed 210	Winchester	2.27	52.0C	3499
Speer 87 gr SP	Reloder 19	CCI 200	Winchester	2.27	52.0C	3333
Speer 100 gr BTSP	Power Pro 2000MR	Fed 210	Winchester	2.27	44.0	3140
Speer 100 gr SP	Reloder 10X	CCI 200	Winchester	2.27	35.0	2984
Speer 100 gr SP	Reloder 15	CCI 200	Winchester	2.27	41.5	3110
Speer 100 gr SP	Reloder 19	CCI 200	Winchester	2.27	49.5C	3180
Speer 100 gr BTSP	Reloder 17	Fed 210	Winchester	2.27	47.5	3311
Speer 120 gr BTSP	Power Pro 2000MR	Fed 210	Winchester	2.33	40.0	2800
Sierra 120 gr BTSP	Reloder 10X	CCI 200	Winchester	2.27	31.5	2607
Sierra 120 gr BTSP	Reloder 15	CCI 200	Winchester	2.27	38.0	2792
Sierra 120 gr BTSP	Reloder 17	Fed 210	Winchester	2.27	45.0	3041
Sierra 120 gr BTSP	Reloder 19	CCI 200	Winchester	2.27	46.0C	2914
		257 Weatherby	Magnum			
Speer 87 gr SP	Reloder 19	CCI 250	Federal	3.15	68.0	3637
Speer 87 gr SP	Reloder 22	CCI 250	Federal	3.15	71.0	3661
Speer 87 gr SP	Reloder 25	CCI 250	Federal	3.15	73.0C	3670
Speer 100 gr SP	Reloder 19	CCI 250	Federal	3.15	65.0	3405
Speer 100 gr SP	Reloder 22	CCI 250	Federal	3.15	68.0	3450
Speer 100 gr SP	Reloder 25	CCI 250	Federal	3.15	73.0	3545
Sierra 120 gr BTSP	Reloder 22	CCI 250	Federal	3.17	63.0	3120
Sierra 120 gr BTSP	Reloder 25	CCI 250	Federal	3.17	67.0	3236
	6.5 X	55 Swedish Ma	user (military)			
Speer 120 gr SP	Reloder 19	CCI 200	Remington	3	41.0	2655
Speer 120 gr SP	Reloder 22	CCI 200	Remington	3	42.0	2670
Speer 90 gr HP	Reloder 17	Fed 210	Federal	2.850	48.5	3223

6.5 X 55 Swedish Mauser (commercial action)								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 120 gr SP	Power Pro 2000MR	Fed 210	Federal	3	36.0	2560		
Speer 120 gr SP	Reloder 17	Fed 210	Federal	3	41.5	2741		
Speer 120 gr SP	Reloder 19	CCI 200	Remington	3	46.0	2820		
Speer 120 gr SP	Reloder 22	CCI 200	Remington	3	46.0	2830		
Speer 140 gr SP	Power Pro 2000MR	Fed 210	Federal	3	33.0	2310		
Speer 140 gr SP	Reloder 17	Fed 210	Federal	3	38.5	2508		
Speer 140 gr SP	Reloder 19	CCI 200	Remington	3	45.0	2616		
Speer 140 gr SP	Reloder 22	CCI 200	Remington	3	45.0	2655		
		260 Remi	ngton					
Speer 90 gr HP	Power Pro 2000MR	Fed 210	Federal	2.65	48.2	3440		
Speer 90 gr HP	Reloder 15	CCI 200	Remington	2.65	45.5	3311		
Speer 90 gr HP	Reloder 19	CCI 200	Remington	2.65	50.0C	2985		
Speer 120 gr SP	Power Pro 2000MR	Fed 210	Federal	2.72	40.0	2830		
Speer 120 gr SP	Reloder 15	CCI 200	Remington	2.72	39.0	2819		
Speer 120 gr SP	Reloder 17	Fed 210	Federal	2.72	44.0	2912		
Speer 120 gr SP	Reloder 19	CCI 200	Remington	2.72	48.0C	2950		
Speer 140 gr SP	Reloder 17	Fed 210	Federal	2.745	41.0	2645		
Speer 140 gr SP	Reloder 19	CCI 200	Remington	2.745	45.5C	2731		
Speer 140 gr SP	Reloder 22	CCI 200	Remington	2.745	46.0C	2701		
		6.8 mm Remir	igton SPC					
Speer 90 gr HP	Reloder 7	CCI 200	Remington	2.25	27.5	2983		
Speer 90 gr HP	Reloder 10X	CCI 200	Remington	2.25	29.5	2991		
Speer 100 gr HP	Reloder 7	CCI 200	Remington	2.25	26.0	2715		
Speer 100 gr HP	Reloder 10X	CCI 200	Remington	2.25	28.5C	2791		
Speer 130 gr SP	Reloder 10X	CCI 200	Remington	2.25	25.5C	2431		
		270 Winc	hester					
Speer 90 gr HP	Reloder 15	CCI 200	Winchester	3.17	55.0	3511		
Speer 90 gr HP	Reloder 19	CCI 200	Winchester	3.17	64.0C	3341		
Speer 100 gr HP	Power Pro 2000MR	Fed 210	Federal	3.1	53.0	3420		
Speer 100 gr HP	Reloder 17	Fed 210	Federal	3.1	59.0	3554		
Speer 100 gr HP	Reloder 19	CCI 200	Winchester	3.1	62.0C	3220		
Speer 130 gr SP	Reloder 15	CCI 200	Winchester	3.24	45.0	2742		
Speer 130 gr SP	Reloder 19	CCI 200	Winchester	3.24	57.0	2904		
Speer 130 gr SP	Reloder 22	CCI 200	Winchester	3.24	58.0	2947		
Speer 130 gr BTSP	Power Pro 2000MR	Fed 210	Federal	3.24	46.5	2950		
Speer 130 gr BTSP	Reloder 17	Fed 210	Federal	3.2	54.0	3136		

	270 Winchester continued								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Federal 130 gr Fusion	Power Pro 2000MR	Fed 210	Federal	3.245	48.5	3020			
Speer 140 gr SP	Reloder 19	CCI 200	Winchester	3.26	56.0	2923			
Speer 140 gr SP	Reloder 22	CCI 200	Winchester	3.26	56.5	2949			
Speer 150 gr SP	Reloder 19	CCI 200	Winchester	3.27	53.0	2745			
Speer 150 gr SP	Reloder 22	CCI 200	Winchester	3.27	54.0	2769			
Speer 150 gr BTSP	Reloder 17	Fed 210	Federal	3.2	51.5	2921			
		270 WS	M						
Speer 100 gr HP	Reloder 15	CCI 200	Winchester	2.73	62	3564			
Speer 100 gr HP	Reloder 17	Fed 215	Federal	2.730	67.5	3668			
Speer 130 gr SP	Reloder 19	CCI 200	Winchester	2.7	66.0	3088			
Speer 130 gr SP	Reloder 22	CCI 200	Winchester	2.7	66.0	3228			
Speer 130 gr BTSP	Reloder 17	Fed 215	Federal	2.7	62.0	3258			
Speer 140 gr SP	Reloder 19	CCI 200	Winchester	2.71	64.0	3088			
Speer 140 gr SP	Reloder 22	CCI 200	Winchester	2.71	65.0	3122			
Speer 140 gr SP	Reloder 25	CCI 200	Winchester	2.71	69.0	3179			
Speer 150 gr SP	Reloder 19	CCI 200	Winchester	2.67	60.0	2990			
Speer 150 gr SP	Reloder 22	CCI 200	Winchester	2.67	61.0	3009			
Speer 150 gr SP	Reloder 25	CCI 200	Winchester	2.67	64.0	3058			
Speer 150 gr BTSP	Reloder 17	Fed 215	Federal	2.7	60.0	3041			
		270 Weatherby	Magnum						
Speer 100 gr HP	Reloder 19	Fed 215	Federal	3.25	73.0	3570			
Speer 100 gr HP	Reloder 22	Fed 215	Federal	3.25	76.0C	3627			
Speer 100 gr HP	Reloder 25	Fed 215	Federal	3.25	77.0C	3478			
Speer 130 gr SP	Reloder 19	Fed 215	Federal	3.25	65.0	3176			
Speer 130 gr SP	Reloder 22	Fed 215	Federal	3.25	68.0	3214			
Speer 130 gr SP	Reloder 25	Fed 215	Federal	3.25	72.0	3267			
Speer 150 gr SP	Reloder 19	Fed 215	Federal	3.25	60.0	2903			
Speer 150 gr SP	Reloder 22	Fed 215	Federal	3.25	63.0	2942			
Speer 150 gr SP	Reloder 25	Fed 215	Federal	3.25	66.0	2966			
	264 Winchester Magnum								
Speer 120 gr SP	Reloder 19	CCI 250	Winchester	3.3	59.0	3118			
Speer 120 gr SP	Reloder 22	CCI 250	Winchester	3.3	58.0	3140			
Speer 120 gr SP	Reloder 25	CCI 250	Winchester	3.3	63.0	3219			
Speer 140 gr SP	Reloder 19	CCI 250	Winchester	3.32	52.0	2822			
Speer 140 gr SP	Reloder 22	CCI 250	Winchester	3.32	53.0	2857			
Speer 140 gr SP	Reloder 25	CCI 250	Winchester	3.32	60.0	3005			

Centerfire Rifle Load Data continued

7-30 Waters										
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity				
					Grains	fps				
Speer 110 gr HP	Reloder 15	CCI 200	Federal	2.55	37.0	2757				
Speer 115 gr HP	Reloder 15	CCI 200	Federal	2.55	35.0	2480				
7-30 Waters continued										
Speer 130 gr SP	Reloder 15	CCI 200	Federal	2.55	35.5	2609				
Speer 145 gr SP	Reloder 15	CCI 200	Federal	2.55	35.0	2480				
	284 Winchester									
Speer 110 gr HP	Reloder 15	CCI 200	Winchester	2.78	57.0	3384				
Speer 110 gr HP	Reloder 19	CCI 200	Winchester	2.78	62.0C	3159				
		7 MM Ma	user							
Speer 110 gr HP	Power Pro 2000MR	Fed 210	Federal	2.985	45.5	3010				
Speer 110 gr HP	Reloder 15	CCI 200	Remington	2.985	48.0	3093				
Speer 115 gr HP	Reloder 15	CCI 200	Remington	2.89	47.0	3024				
Speer 115 gr HP	Reloder 19	CCI 200	Remington	2.89	54.0C	2879				
Speer 130 gr SP	Reloder 15	CCI 200	Remington	2.8	45.0	2913				
Speer 130 gr SP	Reloder 19	CCI 200	Remington	2.8	52.0C	2855				
Speer 130 gr SP	Reloder 22	CCI 200	Remington	2.8	53.0C	2860				
Speer 130 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.8	43.3	2810				
Speer 140 gr SP	Reloder 19	CCI 200	Remington	2.8	49.0C	2653				
Speer 145 gr SP	Reloder 15	CCI 200	Remington	2.8	42.0	2598				
Speer 145 gr SP	Reloder 19	CCI 200	Remington	2.8	52.0C	2795				
Speer 145 gr SP	Reloder 22	CCI 200	Remington	2.8	51.0C	2684				
Speer 145 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.8	41.0	2610				
Speer 160 gr SP	Reloder 19	CCI 200	Remington	3	49.0C	2570				
Speer 160 gr SP	Reloder 22	CCI 200	Remington	3	49.0C	2514				
Speer 175 gr SP	Reloder 15	CCI 200	Remington	3	38.0	2282				
Speer 175 gr SP	Reloder 19	CCI 200	Remington	3.015	48.0C	2503				
Speer 175 gr SP	Reloder 22	CCI 200	Remington	3.015	51.0C	2596				
		7 mm-08 Ren	nington							
Speer 110 gr HP	Power Pro 2000MR	Fed 210	Federal	2.76	48.0	3255				
Speer 110 gr HP	Reloder 15	CCI 200	Remington	2.76	48.0	3238				
Speer 110 gr HP	Reloder 17	Fed 210	Federal	2.76	50.5C	3169				
Speer 115 gr HP	Reloder 15	CCI 200	Remington	2.655	46.0	3106				
Speer 115 gr HP	Reloder 17	Fed 210	Federal	2.655	49.5C	3107				
Speer 130 gr SP	Reloder 15	CCI 200	Remington	2.73	42.0	2786				
Speer 130 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.73	45.7	3030				
Speer 130 gr BTSP	Reloder 17	Fed 210	Federal	2.73	48.5C	3007				
Speer 145 gr SP	Reloder 15	CCI 200	Remington	2.73	41.0	2705				

C = Compressed Charge

7 mm-08 Remington continued								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 145 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.73	43.3	2850		
Speer 145 gr BTSP	Reloder 17	Fed 210	Federal	2.73	46.0	2819		
Speer 145 gr SP	Reloder 19	CCI 200	Remington	2.73	51.0C	2933		
Speer 160 gr SP	Reloder 15	CCI 200	Remington	2.8	38.0	2506		
Speer 160 gr SP	Reloder 19	CCI 200	Remington	2.8	47.0C	2710		
Speer 160 gr BTSP	Reloder 17	Fed 210	Federal	2.8	44.0	2669		
Hornady 162 gr A Max	Power Pro 2000MR	Fed 210	Federal	2.8	42.0	2710		
Speer 175 gr SP	Reloder 15	CCI 200	Remington	2.745	36.0	2312		
Speer 175 gr GS	Reloder 17	Fed 210	Federal	2.745	44.0	2574		
Speer 175 gr SP	Reloder 19	CCI 200	Remington	2.745	47.0C	2628		
		280 Remin	gton					
Speer 110 gr HP	Reloder 19	CCI 200	Remington	3.2	63.0C	3286		
Speer 110 gr HP	Reloder 17	Fed 210	Federal	3.2	59.5	3397		
Speer 130 gr SP	Reloder 15	CCI 200	Remington	3.205	47.0	2967		
Speer 130 gr SP	Reloder 19	CCI 200	Remington	3.205	59.0	3134		
Speer 130 gr BTSP	Reloder 17	Fed 210	Federal	3.205	56.0	3167		
Speer 140 gr SP	Reloder 19	CCI 200	Remington	3.2	59.0C	2962		
Speer 145 gr SP	Reloder 19	CCI 200	Remington	3.18	57.0	2973		
Speer 145 gr SP	Reloder 22	CCI 200	Remington	3.18	58.0C	2880		
Speer 145 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.18	56.8	2990		
Speer 145 gr BTSP	Reloder 17	Fed 210	Federal	3.18	53.0	2968		
Speer 160 gr SP	Reloder 19	CCI 200	Remington	3.2	55.0	2813		
Speer 160 gr SP	Reloder 22	CCI 200	Remington	3.2	56.0	2807		
Speer 160 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.18	54.5	2830		
Speer 160 gr BTSP	Reloder 17	Fed 210	Federal	3.2	51.5	2825		
Speer 175 gr SP	Power Pro 4000MR	Fed 215	Federal	3.25	54.0	2690		
Speer 175 gr SP	Reloder 19	CCI 200	Remington	3.33	52.0	2597		
Speer 175 gr SP	Reloder 22	CCI 200	Remington	3.33	53.0	2616		
Speer 175 gr GS	Reloder 17	Fed 210	Federal	3.265	50.5	2674		
	7 mr	n Winchester S	hort Magnum					
Speer 110 gr HP	Reloder 15	CCI 200	Winchester	2.8	59.0	3312		
Speer 110 gr HP	Reloder 17	Fed 215	Winchester	2.77	69.5	3588		
Speer 110 gr HP	Reloder 19	CCI 200	Winchester	2.8	72.0	3392		
Speer 130 gr SP	Reloder 19	CCI 200	Winchester	2.775	67.0	3230		
Speer 130 gr SP	Reloder 22	CCI 200	Winchester	2.775	68.0	3228		
Speer 130 gr BTSP	Power Pro 4000MR	Fed 215	Winchester	2.775	70.0C	3335		
Speer 130 gr BTSP	Reloder 17	Fed 215	Winchester	2.775	66.5	3356		

	7 mm Winchester Short Magnum continued								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Speer 140 gr TBBC	Power Pro 4000MR	Fed 215	Winchester	2.8	67.9C	3190			
Speer 140 gr SP	Reloder 19	CCI 200	Winchester	2.8	68.0	3134			
Speer 140 gr SP	Reloder 22	CCI 200	Winchester	2.8	68.0	3132			
Speer 145 gr BTSP	Power Pro 4000MR	Fed 215	Winchester	2.78	67.7C	3165			
Speer 145 gr SP	Reloder 19	CCI 200	Winchester	2.78	65.0	3063			
Speer 145 gr SP	Reloder 22	CCI 200	Winchester	2.78	66.0	3079			
Speer 145 gr BTSP	Reloder 17	Fed 215	Winchester	2.76	63.5	3166			
Speer 160 gr SP	Reloder 19	CCI 200	Winchester	2.82	63.0	2956			
Speer 160 gr SP	Reloder 22	CCI 200	Winchester	2.82	63.0	2936			
Speer 160 gr SP	Reloder 25	CCI 200	Winchester	2.82	70.0	3090			
Speer 160 gr BTSP	Power Pro 4000MR	Fed 215	Winchester	2.82	66.0	2995			
Speer 160 gr BTSP	Reloder 17	Fed 215	Winchester	2.82	60.0	2964			
	7	mm Remington	n Magnum						
Speer 110 gr HP	Reloder 15	CCI 250	Remington	3.2	58.0	3256			
Speer 110 gr HP	Reloder 17	Fed 215	Federal	3.2	68.0	3535			
Speer 110 gr HP	Reloder 19	CCI 250	Remington	3.2	74.0C	3489			
Speer 110 gr HP	Reloder 22	CCI 250	Remington	3.2	75.0C	3503			
Speer 130 gr SP	Reloder 15	CCI 250	Remington	3.285	55.0	3049			
Speer 130 gr SP	Reloder 19	CCI 250	Remington	3.285	69.0	3270			
Speer 130 gr SP	Reloder 22	CCI 250	Remington	3.285	70.0	3314			
Speer 130 gr BTSP	Reloder 17	Fed 215	Federal	3.2	63.5	3255			
Speer 140 gr SP	Reloder 19	CCI 250	Remington	3.28	67.0	3095			
Speer 140 gr SP	Reloder 22	CCI 250	Remington	3.28	66.0	3074			
Speer 140 gr SP	Reloder 25	CCI 250	Remington	3.28	71.5	3173			
Speer 145 gr SP	Reloder 19	CCI 250	Remington	3.28	67.0	3153			
Speer 145 gr SP	Reloder 22	CCI 250	Remington	3.28	68.0	3136			
Speer 145 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.26	63.0	3055			
Speer 145 gr BTSP	Reloder 17	Fed 215	Federal	3.21	61.8	3113			
Speer 160 gr SP	Reloder 19	CCI 250	Remington	3.28	64.0	2941			
Speer 160 gr SP	Reloder 22	CCI 250	Remington	3.28	65.0	2976			
Speer 160 gr SP	Reloder 25	CCI 250	Remington	3.28	70.0	3012			
Speer 160 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.26	60.0	2850			
Speer 160 gr BTSP	Reloder 17	Fed 215	Federal	3.21	59.0	2931			
Speer 175 gr SP	Power Pro 4000MR	Fed 215	Federal	3.22	61.0	2780			
Speer 175 gr SP	Reloder 19	CCI 250	Remington	3.26	62.0	2812			
Speer 175 gr SP	Reloder 22	CCI 250	Remington	3.26	61.0	2830			
Speer 175 gr SP	Reloder 25	CCI 250	Remington	3.26	67.0	2888			
Speer 175 gr GS	Reloder 17	Fed 215	Federal	3.215	57.0	2774			
		0 0	l Charas						

7 mm Remington Ultra Magnum								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 145 gr SP	Reloder 19	Fed 215	Remington	3.6	85.0	3200		
Speer 145 gr SP	Reloder 22	Fed 215	Remington	3.6	88.0	3250		
Speer 145 gr SP	Reloder 25	Fed 215	Remington	3.6	92.0	3251		
Speer 160 gr SP	Reloder 19	Fed 215	Remington	3.6	85.0	3132		
Speer 160 gr SP	Reloder 22	Fed 215	Remington	3.6	87.0	3177		
Speer 160 gr SP	Reloder 25	Fed 215	Remington	3.6	91.0	3174		
Speer 175 gr SP	Reloder 22	Fed 215	Remington	3.57	85.0	2974		
Speer 175 gr SP	Reloder 25	Fed 215	Remington	3.57	90.0	3059		
	7 mm Ren	nington Short Ac	tion Ultra Magn	um				
Speer 110 gr HP	Reloder 15	CCI 200	Remington	2.68	59.0	3387		
Speer 110 gr HP	Reloder 19	CCI 200	Remington	2.68	70.0C	3419		
Speer 130 gr SP	Reloder 15	CCI 200	Remington	2.785	52.0	3085		
Speer 130 gr SP	Reloder 19	CCI 200	Remington	2.785	65.0	3229		
Speer 130 gr SP	Reloder 22	CCI 200	Remington	2.785	65.0	3214		
Speer 140 gr SP	Reloder 19	CCI 200	Remington	2.84	63.0	3094		
Speer 140 gr SP	Reloder 22	CCI 200	Remington	2.84	64.0	3117		
Speer 145 gr SP	Reloder 19	CCI 200	Remington	2.785	62.0	3040		
Speer 145 gr SP	Reloder 22	CCI 200	Remington	2.785	63.0	3061		
Speer 160 gr SP	Reloder 19	CCI 200	Remington	2.8	60.0	2913		
Speer 160 gr SP	Reloder 22	CCI 200	Remington	2.8	61.0	2930		
Speer 160 gr SP	Reloder 25	CCI 200	Remington	2.8	66.0C	3024		
		7 mm Weatherby	y Magnum					
Speer 110 gr HP	Reloder 15	Fed 215	Federal	3.26	63.0	3405		
Speer 110 gr HP	Reloder 19	Fed 215	Federal	3.26	74.0	3485		
Speer 110 gr HP	Reloder 22	Fed 215	Federal	3.26	76.0	3507		
Speer 130 gr SP	Reloder 15	Fed 215	Federal	3.33	60.0	3185		
Speer 130 gr SP	Reloder 19	Fed 215	Federal	3.33	72.0	3317		
Speer 130 gr SP	Reloder 22	Fed 215	Federal	3.33	74.0	3345		
Speer 145 gr SP	Reloder 15	Fed 215	Federal	3.35	56.0	2940		
Speer 145 gr SP	Reloder 19	Fed 215	Federal	3.35	69.0	3133		
Speer 145 gr SP	Reloder 22	Fed 215	Federal	3.35	71.0	3177		
Speer 160 gr SP	Reloder 19	Fed 215	Federal	3.35	68.5	3035		
Speer 160 gr SP	Reloder 22	Fed 215	Federal	3.35	70.0	3065		
Speer 160 gr SP	Reloder 25	Fed 215	Federal	3.35	75.0C	3132		
Speer 175 gr SP	Reloder 19	Fed 215	Federal	3.25	67.0	2885		
Speer 175 gr SP	Reloder 22	Fed 215	Federal	3.25	69.0	2904		
Speer 175 gr SP	Reloder 25	Fed 215	Federal	3.25	74.0C	2982		

	7 mm Shooting Times Westerner								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Speer 145 gr SP	Reloder 22	CCI 250	Remington	3.6	77.0	3273			
Speer 160 gr SP	Reloder 22	CCI 250	Remington	3.6	73.0	3074			
Speer 160 gr SP	Reloder 25	CCI 250	Remington	3.6	75.0	3076			
Speer 175 gr SP	Reloder 22	CCI 250	Remington	3.6	70.0	2879			
Speer 175 gr SP	Reloder 25	CCI 250	Remington	3.6	74.0	2947			
	30-30 Winchester								
Speer 100 gr RNSP	Reloder 7	CCI 200	Winchester	2.345	35.0	2792			
Speer 110 gr HP	Reloder 7	CCI 200	Winchester	2.415	34.0	2708			
Speer 130 gr FNSP	Reloder 7	CCI 200	Winchester	2.55	31.0	2393			
Speer 130 gr FNSP	Reloder 10X	CCI 200	Winchester	2.55	30.5	2273			
Speer 130 gr FNSP	Reloder 15	CCI 200	Winchester	2.55	36.0C	2259			
Speer 150 gr FNSP	Reloder 7	CCI 200	Winchester	2.55	29.0	2188			
Speer 150 gr FNSP	Reloder 10X	CCI 200	Winchester	2.55	28.0	2117			
Speer 150 gr FNSP	Reloder 15	CCI 200	Winchester	2.55	34.0C	2170			
Speer 170 gr FNSP	Reloder 10X	CCI 200	Winchester	2.55	26.5	1972			
		300 Sav	age						
Speer 100 gr RNSP	Reloder 7	CCI 200	Federal	2.475	40.0	3061			
Speer 110 gr SP	Reloder 7	CCI 200	Federal	2.475	38.0	2811			
Speer 165 gr SP	Reloder 15	CCI 200	Federal	2.55	44.0C	2614			
Speer 180 gr SP	Reloder 15	CCI 200	Federal	2.55	43.0C	2469			
Speer 200 gr SP	Reloder 15	CCI 200	Federal	2.55	42.0C	2379			
		308 Wincl	nester						
Speer 100 gr RNSP	Reloder 7	CCI 200	IMI	2.36	41.0	3003			
Speer 110 gr HP	Reloder 15	CCI 200	IMI	2.55	51.0C	3144			
Speer 125 gr HP	Reloder 10X	CCI 200	IMI	2.615	42.0	3073			
Speer 125 gr HP	Reloder 15	CCI 200	IMI	2.615	50.0C	3062			
Speer 130 gr HP	Power Pro 2000MR	Fed 210	Federal	2.8	53.0C	3095			
Speer 150 gr SP	Reloder 10X	CCI 200	IMI	2.7	39.5	2755			
Speer 150 gr SP	Reloder 15	CCI 200	IMI	2.7	49.0C	2919			
Speer 150 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.7	51.5C	2950			
Speer 150 gr BTSP	Reloder 17	Fed 210	Federal	2.7	50.0C	2763			
Speer 150 gr TBBC	Power Pro 2000MR	Fed 210	Federal	2.8	52.0C	2950			
Federal 150 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.7	53.0C	3060			
Speer 165 gr SP	Reloder 10X	CCI 200	IMI	2.8	38.0	2596			
Speer 165 gr SP	Reloder 15	CCI 200	IMI	2.8	47.0C	2812			
Speer 165 gr BTSP	Power Pro 2000MR	Fed 210	Federal	2.8	50.0C	2840			

308 Winchester continued									
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Speer 165 gr BTSP	Reloder 17	Fed 210	Federal	2.8	50.0C	2739			
Speer 165 gr TBBC	Power Pro 2000MR	Fed 210	Federal	2.8	49.2C	2830			
Federal 165 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.7	51.0C	2910			
Speer 168 gr BTHP	Reloder 15	CCI 200	IMI	2.8	45.0	2710			
Sierra 168 gr HPBT	Power Pro 2000MR	Fed 210	Federal	2.8	48.5C	2775			
Sierra 175 gr HPBT	Power Pro 2000MR	Fed 210	Federal	2.8	47.7C	2720			
Speer 180 gr SP	Reloder 15	CCI 200	IMI	2.8	45.0C	2613			
Speer 180 gr BTSP	Reloder 17	Fed 210	Federal	2.8	48.7C	2641			
Federal 180 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.7	48.5C	2760			
Speer 200 gr SP	Reloder 15	CCI 200	IMI	2.8	42.0	2416			
		30-06 Spring	gfield						
Speer 100 gr RNSP	Reloder 7	CCI 200	Winchester	2.935	47.0	3188			
Speer 110 gr SP	Reloder 15	CCI 200	Winchester	3	60.0C	3307			
Speer 150 gr SP	Reloder 15	CCI 200	Winchester	3.25	52.0	2728			
Speer 150 gr SP	Reloder 19	CCI 200	Winchester	3.25	62.0C	2722			
Speer 150 gr BTSP	Reloder 17	Fed 210	Federal	3.25	58.0	3006			
Speer 165 gr SP	Reloder 19	CCI 200	Winchester	3.25	59.0C	2614			
Speer 165 gr SP	Reloder 22	CCI 200	Winchester	3.25	62.0C	2725			
Speer 165 gr BTSP	Reloder 17	Fed 210	Federal	3.25	56.5	2874			
Speer 168 gr BTHP	Reloder 17	Fed 210	Federal	3.295	56.0	2850			
Speer 168 gr BTHP	Reloder 19	CCI 200	Winchester	3.295	61.0C	2697			
Speer 180 gr SP	Reloder 19	CCI 200	Winchester	3.16	59.0C	2640			
Speer 180 gr SP	Reloder 22	CCI 200	Winchester	3.16	62.0C	2721			
Speer 180 gr BTHP	Reloder 17	Fed 210	Federal	3.25	54.5	2762			
Speer 200 gr SP	Reloder 15	CCI 200	Winchester	3.295	47.0	2371			
Speer 200 gr SP	Reloder 17	Fed 210	Federal	3.25	51.0	2552			
Speer 200 gr SP	Reloder 19	CCI 200	Winchester	3.295	55.0	2335			
Speer 200 gr SP	Reloder 22	CCI 200	Winchester	3.295	58.0C	2499			
Speer 200 gr SP	Reloder 25	CCI 200	Winchester	3.295	60.0C	2481			
300 Remington Short Action Ultra Magnum									
Speer 110 gr SP	Reloder 15	CCI 200	Remington	2.656	65.0	3575			
Speer 130 gr HP	Power Pro 2000MR	Fed 210	Remington	2.62	67.2	3460			
Speer 130 gr HP	Reloder 15	CCI 200	Remington	2.625	62.0	3350			
Speer 130 gr HP	Reloder 17	Fed 210	Federal	2.625	69.0C	3413			
Speer 150 gr BTSP	Power Pro 2000MR	Fed 210	Remington	2.8	63.5	3230			
Speer 150 gr BTSP	Reloder 17	Fed 210	Federal	2.8	65.5	3268			
Speer 150 gr SP	Reloder 19	CCI 200	Remington	2.8	71.0C	3150			

Centerfire Rifle Load Data continued

300 Remington Short Action Ultra Magnum continued									
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Federal 150 gr Fusion	Power Pro 2000MR	Fed 210	Remington	2.7	64.0	3230			
Speer 165 gr BTSP	Power Pro 2000MR	Fed 210	Remington	2.8	61.5	3090			
Speer 165 gr BTSP	Reloder 17	Fed 210	Federal	2.8	65.0	3152			
Speer 165 gr SP	Reloder 19	CCI 200	Remington	2.8	61.5	2999			
Speer 165 gr SP	Reloder 22	CCI 200	Remington	2.8	70.0C	3006			
Federal 165 gr Fusion	Power Pro 2000MR	Fed 210	Remington	2.7	61.5	3050			
Speer 180 gr BTSP	Reloder 17	Fed 210	Federal	2.8	63.0	3008			
Speer 180 gr SP	Reloder 19	CCI 200	Remington	2.8	67.0C	2896			
Speer 180 gr SP	Reloder 22	CCI 200	Remington	2.8	67.0C	2896			
Federal 180 gr Fusion	Power Pro 2000MR	Fed 210	Remington	2.7	59.5	2910			
		300 Wincheste	r Magnum						
Speer 100 gr RNSP	Reloder 15	CCI 250	Winchester	2.96	72.0	3604			
Speer 110 gr SP	Reloder 15	CCI 250	Winchester	3.215	71.0	3542			
Speer 110 gr SP	Reloder 19	CCI 250	Winchester	3.215	84.0	3574			
Speer 130 gr HP	Reloder 15	CCI 250	Winchester	3.26	67.0	3243			
Speer 150 gr SP	Reloder 15	CCI 250	Winchester	3.33	64.0	3058			
Speer 150 gr BTSP	Reloder 17	Fed 215	Federal	3.33	74.0	3333			
Speer 150 gr SP	Reloder 19	CCI 250	Winchester	3.33	78.0C	3301			
Speer 150 gr SP	Reloder 22	CCI 250	Winchester	3.33	80.0C	3227			
Speer 165 gr SP	Reloder 15	CCI 250	Winchester	3.34	60.0	2809			
Speer 165 gr BTSP	Reloder 17	Fed 215	Federal	3.34	72.5	3202			
Speer 165 gr SP	Reloder 19	CCI 250	Winchester	3.34	75.0	2997			
Speer 165 gr SP	Reloder 22	CCI 250	Winchester	3.34	77.0	3103			
Speer 168 gr BTHP	Reloder 15	CCI 250	Winchester	3.34	63.0	2911			
Speer 168 gr BTHP	Reloder 17	Fed 215	Federal	3.34	72.5	3182			
Speer 168 gr BTHP	Reloder 19	CCI 250	Winchester	3.34	77.0	3138			
Speer 168 gr BTHP	Reloder 22	CCI 250	Winchester	3.34	79.0C	3190			
Speer 180 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.34	75.0C	3110			
Speer 180 gr BTSP	Reloder 17	Fed 215	Federal	3.34	70.5	3074			
Speer 180 gr SP	Reloder 19	CCI 250	Winchester	3.34	76.0	3059			
Speer 180 gr SP	Reloder 22	CCI 250	Winchester	3.34	77.0C	3055			
Speer 180 gr SP	Reloder 25	CCI 250	Winchester	3.34	79.5C	3050			
Speer 200 gr SP	Power Pro 4000MR		Federal	3.34	70.0	2840			
Speer 200 gr SP	Reloder 19	CCI 250	Winchester	3.34	71.0	2761			
Speer 200 gr SP	Reloder 22	CCI 250	Winchester	3.34	73.0C	2852			
Speer 200 gr SP	Reloder 25	CCI 250	Winchester	3.34	75.0C	2857			
Speer 200 gr TBBC	Power Pro 4000MR	Fed 215	Federal	3.33	72.0	2880			

C = Compressed Charge continued continued C = Compressed Charge

	300 Winchester Short Magnum									
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity				
					Grains	fps				
Speer 110 gr SP	Reloder 15	CCI 200	Winchester	2.75	69.0	3692				
Speer 130 gr HP	Power Pro 2000MR	Fed 210	Federal	2.8	66.3	3400				
Speer 130 gr HP	Reloder 15	CCI 200	Winchester	2.8	67.0	3459				
Speer 150 gr SP	Reloder 19	CCI 200	Winchester	2.81	73.5	3244				
Speer 150 gr BTSP	Power Pro 2000MR	Fed 211	Federal	2.81	64.0	3210				
Speer 150 gr BTSP	Reloder 17	Fed 215	Federal	2.81	69.3	3343				
Speer 165 gr SP	Reloder 19	CCI 200	Winchester	2.81	73.0C	3135				
Speer 165 gr SP	Reloder 22	CCI 200	Winchester	2.81	73.0C	3126				
Speer 165 gr BTSP	Reloder 17	Fed 215	Federal	2.81	68.0	3217				
Speer 180 gr SP	Reloder 19	CCI 200	Winchester	2.78	68.5C	2978				
Speer 180 gr SP	Reloder 22	CCI 200	Winchester	2.78	68.5C	2958				
Speer 180 gr BTSP	Reloder 17	Fed 215	Federal	2.81	66.0	3082				
		300 H & H I	Magnum							
Speer 110 gr SP	Reloder 19	CCI 250	Winchester	3.43	79.0	3538				
Speer 130 gr HP	Reloder 19	CCI 250	Winchester	3.44	75.0	3300				
Speer 150 gr SP	Reloder 19	CCI 250	Winchester	3.5	72.0	3223				
Speer 165 gr SP	Reloder 19	CCI 250	Winchester	3.5	67.0	3048				
Speer 180 gr SP	Reloder 22	CCI 250	Winchester	3.5	70.0	2996				
Speer 200 gr SP	Reloder 22	CCI 250	Winchester	3.5	65.0	2774				
		300 Weatherb	y Magnum							
Speer 110 gr SP	Reloder 19	CCI 250	Remington	3.335	90.0C	3722				
Speer 130 gr HP	Reloder 19	CCI 250	Remington	3.53	86.0	3486				
Speer 150 gr SP	Reloder 19	CCI 250	Remington	3.56	83.0	3282				
Speer 150 gr SP	Reloder 22	CCI 250	Remington	3.56	86.0	3363				
Speer 165 gr SP	Reloder 19	CCI 250	Remington	3.56	80.0	3155				
Speer 165 gr SP	Reloder 22	CCI 250	Remington	3.56	83.0	3170				
Speer 165 gr SP	Reloder 25	CCI 250	Remington	3.56	89.0C	3258				
Speer 180 gr SP	Reloder 19	CCI 250	Remington	3.56	78.0	2990				
Speer 180 gr SP	Reloder 22	CCI 250	Remington	3.56	82.0	3077				
Speer 180 gr SP	Reloder 25	CCI 250	Remington	3.56	87.0	3109				
Speer 200 gr SP	Reloder 19	CCI 250	Remington	3.56	77.0	2878				
Speer 200 gr SP	Reloder 22	CCI 250	Remington	3.56	78.5	2881				
Speer 200 gr SP	Reloder 25	CCI 250	Remington	3.56	85.0C	3022				
	30	0 Remington L	Jitra Magnum							
Speer 150 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.495	90.0	3470				
Speer 150 gr SP	Reloder 19	Fed 215	Federal	3.495	94.0	3401				
Speer 150 gr SP	Reloder 22	Fed 215	Federal	3.495	97.0	3437				

NEW TECHNOLOGY. MAXIMIMUM VELOCITY.

Alliant Powder introduces Reloder 17, a smokeless powder that utilizes new technology to increase projectile velocity in most standard rifle calibers and the new short magnum cartridges.

- DENSITY DESIGNED FOR SHORT MAGNUM CASE CAPACITY
- BURN SPEED SIMILAR TO IMR-4350
- EXCELLENT PERFORMANCE ACROSS TEMPERATURE RANGES

The table below reveals the velocity gain over the nearest competitor for many popular calibers (this information was obtained using Edition 14 of the Speer Reloading Manual).

CALIBER	BULLET	VELOCITY	GAIN
243 Win	85 gr HP	3316	+48
243 WSM	70 gr HP	3745	+198
243 WSM	85 gr BTSP	3452	+178
6mm Rem	80 gr SP	3500	+112
6mm Rem	85 gr BTSP	3441	+156
270 Win	100 gr HP	3554	+118
280 Rem	110 gr HP	3397	+111
7mm WSM	110 gr HP	3588	+163
7mm WSM	130 gr BTSP	3356	+126
7mm WSM	145 gr BTSP	3166	+87
30-06	150 gr BTSP	3006	+159
300 WSM	150 gr BTSP	3343	+74
300 WSM	180 gr BTSP	3082	+10
300 Win Mag	150 gr BTSP	3333	+32
325 WSM	170 gr Semi-SP	3131	+57
325 WSM	200 gr SP	2897	+60





continued

300 Remington Ultra Magnum continued									
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity			
					Grains	fps			
Speer 165 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.6	89.0	3340			
Speer 165 gr SP	Reloder 19	Fed 215	Federal	3.6	91.0	3263			
Speer 165 gr SP	Reloder 22	Fed 215	Federal	3.6	93.0	3268			
Speer 165 gr SP	Reloder 25	Fed 215	Federal	3.6	97.0	3279			
Speer 180 gr BTSP	Power Pro 4000MR	Fed 215	Federal	3.6	86.8	3180			
Speer 180 gr SP	Reloder 22	Fed 215	Federal	3.6	90.0	3118			
Speer 180 gr SP	Reloder 25	Fed 215	Federal	3.6	94.0	3146			
Speer 200 gr SP	Power Pro 4000MR	Fed 215	Federal	3.6	81.4	2940			
Speer 200 gr SP	Reloder 22	Fed 215	Federal	3.6	86.0	2936			
Speer 200 gr SP	Reloder 25	Fed 215	Federal	3.6	88.0	2942			
		30-378 Wea	therby						
Speer 150 gr SP	Reloder 19	CCI 250	Weatherby	3.6	105.0	3404			
Speer 165 gr SP	Reloder 19	CCI 250	Weatherby	3.6	103.0	3285			
	32-2	0 Winchester (Strong Action)						
Speer 100 gr HP	Reloder 7	CCI 400	Winchester	1.56	16.0	1634			
		7.62 X 39	mm						
Speer 123 gr SP	Reloder 7	CCI 200	IMI	2.15	27.0	2429			
		303 Briti	sh						
Speer 123 gr SP	Reloder 10X	Fed 210	Federal	2.91	42.5	2964			
Speer 123 gr SP	Reloder 15	Fed 210	Federal	2.91	48.0C	2897			
Speer 150 gr SP	Reloder 10X	Fed 210	Federal	3.04	37.5	2606			
Speer 150 gr SP	Reloder 15	Fed 210	Federal	3.04	45.0	2746			
Speer 180 gr RNSP	Reloder 10X	Fed 210	Federal	3.075	34.5	2324			
Speer 180 gr RNSP	Reloder 15	Fed 210	Federal	3.075	42.0	2479			
	325	Winchester Sh	ort Magnum						
Speer 150 gr SP	Reloder 15	Fed 210	Winchester	2.85	65.0	3245			
Speer 150 gr S-SP	Reloder 17	Fed 215	Winchester	2.85	71.5	3348			
Speer 170 gr SP	Reloder 15	Fed 210	Winchester	2.79	62.0	3038			
Speer 170 gr S-SP	Reloder 17	Fed 215	Winchester	2.79	65.0	3131			
Speer 170 gr SP	Reloder 19	Fed 210	Winchester	2.79	74.0C	3064			
Speer 200 gr SP	Reloder 15	Fed 210	Winchester	2.84	57.0	2742			
Speer 200 gr SP	Reloder 17	Fed 215	Winchester	2.84	65.0	2897			
Speer 200 gr SP	Reloder 19	Fed 210	Winchester	2.84	69.0	2837			
		8mm Maı	ıser						
Speer 150 gr SP	Reloder 15	CCI 200	Remington	2.89	51.0	2726			
Speer 170 gr SP	Reloder 15	CCI 200	Remington	2.89	49.0	2632			
Speer 200 gr SP	Reloder 15	CCI 200	Remington	2.89	44.0	2267			

Centerfire Rifle Load Data continued

338 Federal								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 200 gr SP	Power Pro 2000MR	Fed 210	Federal	2.82	52.0	2725		
Speer 200 gr SP	Reloder 7	Fed 210	Federal	2.82	36.5	2403		
Speer 200 gr SP	Reloder 10X	Fed 210	Federal	2.82	38.5	2444		
Speer 200 gr SP	Reloder 15	Fed 210	Federal	2.82	46.0C	2598		
Federal 200 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.84	54.0C	2740		
Speer 225 gr SP	Power Pro 2000MR	Fed 210	Federal	2.82	49.5	2540		
Speer 225 gr BTSP	Reloder 7	Fed 210	Federal	2.82	35.0	2256		
Speer 225 gr BTSP	Reloder 10X	Fed 210	Federal	2.82	37.0	2299		
Speer 225 gr BTSP	Reloder 15	Fed 210	Federal	2.82	44.0C	2440		
Federal 225 gr Fusion	Power Pro 2000MR	Fed 210	Federal	2.84	52.0C	2625		
		338 Wincheste	er Magnum					
Speer 200 gr SP	Power Pro 2000MR	Fed 210	Federal	3.3	63.2	2880		
Speer 200 gr SP	Reloder 19	CCI 250	Winchester	3.3	76.0C	2806		
Speer 200 gr SP	Reloder 17	Fed 215	Federal	3.3	71.0	3002		
Speer 225 gr SP	Power Pro 2000MR	Fed 210	Federal	3.3	61.0	2715		
Speer 225 gr SP	Reloder 19	CCI 250	Winchester	3.3	78.0C	2944		
Speer 225 gr BTSP	Reloder 17	Fed 215	Federal	3.34	67.5	2831		
Speer 250 gr GSP	Reloder 17	Fed 215	Federal	3.3	66.0	2664		
Speer 250 gr SP	Reloder 19	CCI 250	Winchester	3.3	72.0C	2664		
Speer 250 gr SP	Reloder 22	CCI 250	Winchester	3.3	73.0C	2653		
	33	8 Remington U	Itra Magnum					
Speer 200 gr SP	Reloder 19	Fed 215	Federal	3.5	95.0	3216		
Speer 200 gr SP	Reloder 22	Fed 215	Federal	3.5	98.0	3255		
Speer 200 gr SP	Reloder 25	Fed 215	Federal	3.5	101.0C	3193		
Speer 225 gr SP	Reloder 19	Fed 215	Federal	3.55	91.0	3028		
Speer 225 gr SP	Reloder 22	Fed 215	Federal	3.55	93.0	3029		
Speer 250 gr SP	Reloder 19	Fed 215	Federal	3.55	87.0	2849		
Speer 250 gr SP	Reloder 22	Fed 215	Federal	3.55	91.0	2895		
Speer 250 gr SP	Reloder 25	Fed 215	Federal	3.55	95.0	2915		
		340 Weatherb	y Magnum					
Speer 200 gr SP	Reloder 15	Fed 215	Federal	3.56	73.0	2973		
Speer 200 gr SP	Reloder 19	Fed 215	Federal	3.56	87.0C	3032		
Speer 225 gr SP	Reloder 15	Fed 215	Federal	3.61	70.0	2799		
Speer 225 gr SP	Reloder 19	Fed 215	Federal	3.61	85.0C	2924		
Speer 225 gr SP	Reloder 22	Fed 215	Federal	3.61	87.0C	2901		
Speer 250 gr SP	Reloder 19	Fed 215	Federal	3.61	83.0	2788		
Speer 250 gr SP	Reloder 22	Fed 215	Federal	3.61	85.0	2781		

89

C = Compressed Charge

35 Remington										
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity				
					Grains	fps				
Speer 158 gr UCHP	Reloder 7	CCI 200	Winchester	2.22	37.0	2357				
Speer 180 gr FNSP	Reloder 7	CCI 200	Winchester	2.47	30.0	1653				
Speer 220 gr FNSP	Reloder 7	CCI 200	Winchester	2.47	24.5	1936				
35 Whelan										
Speer 158 gr UCHP	Reloder 7	CCI 200	Remington	2.8	42.0	2193				
Speer 180 gr FNSP	Reloder 15	CCI 200	Remington	3.03	60.0C	2678				
Speer 220 gr FNSP	Reloder 15	CCI 200	Remington	3.23	60.0C	2599				
Speer 225 gr TBBC SP	Reloder 10X	CCI 200	Remington	3.27	51.0	2603				
Speer 225 gr TBBC SP	Reloder 15	CCI 200	Remington	3.27	57.0C	2593				
Speer 250 gr SP	Reloder 15	CCI 200	Remington	3.34	54.0	2284				
		350 Remington	Magnum							
Speer 158 gr UCHP	Reloder 7	CCI 200	Remington	2.47	55.0	2901				
Speer 180 gr FNSP	Reloder 7	CCI 200	Remington	2.8	51.0	2574				
Speer 220 gr FNSP	Reloder 7	CCI 200	Remington	2.74	49.5	2426				
		375 H & H Ma	agnum							
Speer 235 gr SP	Reloder 15	CCI 250	Winchester	3.6	78.0	2920				
Speer 250 gr TBBC SP	Reloder 15	CCI 250	Winchester	3.58	76.0	2847				
Speer 270 gr BTSP	Reloder 15	CCI 250	Winchester	3.6	71.0	2675				
Speer 270 gr BTSP	Reloder 19	CCI 250	Winchester	3.6	83.0C	2589				
Speer 285 gr SP	Reloder 15	CCI 250	Winchester	3.56	69.0	2533				
Speer 285 gr SP	Reloder 19	CCI 250	Winchester	3.56	80.0C	2456				
Speer 300 gr TBBC SP	Reloder 15	CCI 250	Winchester	3.6	70.0	2485				
		378 Weatherby	Magnum							
Speer 250 gr TBBC SP	Reloder 19	CCI 250	Weatherby	3.645	117.0	3227				
Speer 250 gr TBBC SP	Reloder 22	CCI 250	Weatherby	3.645	119.0	3223				
Speer 285 gr SP	Reloder 19	CCI 250	Weatherby	3.635	111.0	2967				
Speer 285 gr SP	Reloder 22	CCI 250	Weatherby	3.635	112.0	2971				
Speer 285 gr SP	Reloder 25	CCI 250	Weatherby	3.635	117.0C	2974				
Speer 300 gr TBBC SP	Reloder 19	CCI 250	Weatherby	3.64	109.0	2829				
Speer 300 gr TBBC SP	Reloder 22	CCI 250	Weatherby	3.64	110.0	2827				
Speer 300 gr TBBC SP	Reloder 25	CCI 250	Weatherby	3.64	116.0C	2907				
		416 Remington	Magnum							
Speer 350 gr SP	Reloder 15	CCI 250	Remington	3.58	85.0	2629				
Speer 400 gr TBBC SP	Reloder 15	CCI 250	Remington	3.55	79.0C	2380				

Centerfire Rifle Load Data continued

416 Rigby								
Caliber & Bullet	Powder	Primer	Case	Min OAL	Chg Wgt	Velocity		
					Grains	fps		
Speer 350 gr SP	Reloder 19	CCI 250	Federal	3.36	105.0	2560		
Speer 400 gr TBBC SP	Reloder 19	CCI 250	Federal	3.6	103.0	2365		
Speer 400 gr TBBC SP	Reloder 22	CCI 250	Federal	3.6	101.0C	2311		
		444 Ma	rlin					
Speer 240 gr JHP	Reloder 7	CCI 200	Remington	2.53	50.0	2354		
Speer 240 gr JHP	Reloder 10X	CCI 200	Remington	2.53	53.0	2348		
Speer 270 gr SP	Reloder 7	CCI 200	Remington	2.53	47.0	2216		
Speer 270 gr SP	Reloder 10X	CCI 200	Remington	2.53	50.0	2212		
	45/70 (Government (Tr	ap Door Actions)					
Speer 300 gr FNHP	Reloder 7	CCI 200	Winchester	2.53	42.0	1775		
Speer 300 gr FNHP	Reloder 10X	CCI 200	Winchester	2.53	44.0	1679		
Speer 350 gr SP	Reloder 7	CCI 200	Winchester	2.715	35.0	1458		
Speer 350 gr SP	Reloder 10X	CCI 200	Winchester	2.715	36.0	1481		
Speer 400 gr FNSP	Reloder 10X	CCI 200	Winchester	2.54	39.0	1464		
	45/7	0 Government (Lever Actions)					
Speer 300 gr FNHP	Reloder 7	CCI 200	Winchester	2.53	47.0	2001		
Speer 300 gr FNHP	Reloder 10X	CCI 200	Winchester	2.53	52.0	1964		
Speer 400 gr FNSP	Reloder 10X	CCI 200	Winchester	2.54	44.0	1641		
		450 Ma	rlin					
Speer 300 gr FNHP	Reloder 7	CCI 200	Hornady	2.525	56.0C	2392		
Speer 400 gr FNSP	Reloder 7	CCI 200	Hornady	2.525	47.0	1963		
		458 Lo	ott					
Speer 350 gr SP	Reloder 7	Fed 215	Hornady	3.4	81.0	2699		
Speer 350 gr SP	Reloder 10X	Fed 215	Hornady	3.4	84.0C	2712		
Speer 500 gr TBBC SP	Reloder 10X	Fed 215	Hornady	3.6	67.0	2097		
Speer 500 gr TBBC SP	Reloder 15	Fed 215	Hornady	3.6	80.0C	2227		
458 Winchester Magnum								
Speer 350 gr SP	Reloder 7	CCI 250	Winchester	3.105	73.0C	2335		
Speer 400 gr FNSP	Reloder 7	CCI 250	Winchester	3.125	74.0	2316		
Speer 500 gr TBBC SP	Reloder 7	CCI 250	Winchester	3.3	62.0	1998		
Speer 500 gr TBBC SP	Reloder 10X	CCI 250	Winchester	3.3	65.0C	2039		

90 C = Compressed Charge 91

EXTRA-LITE™ RELOADING DATA

	12 Gauge	e 2 3/4 i	nch Remingto	n STS, Nitro 27	, Gun Club and	Premier Plasti	c Shells
Shot	Primer	Wad		Charge We	ight (grains) / V e	locity (fps) & Pro	essure (psi)
(oz)			1100 fps	1150 fps	1200 fps	1250 fps	1300 fps
3/4	Rem 209P	CB0178				15.0 grs 6740 psi	16.0 grs 7490 psi
7/8	Rem 209P	TGT 12		14.5 grs 7210 psi	15.5 grs 8210 psi	16.2 grs 8970 psi	17.2 grs 9970 psi
7/8	Rem 209P	CB0178		15.0 grs 6580 psi	15.8 grs 7450 psi	16.8 grs 8430 psi	17.6 grs 9330 psi
7/8	Win 209	TGT 12		14.5 grs 7460 psi	15.5 grs 8700 psi	16.5 grs 9320 psi	17.5 grs 10180 ps
7/8	Fed 209A	CB0178			15.0 grs 8410 psi	15.9 grs 9540 psi	
7/8	Cheddite	CB0178			15.4 grs 7900 psi	16.3 grs 9010 psi	17.2 grs 10240 ps
7/8	Rem 209P	CB1100		14.2 grs 6280 psi	15.2 grs 7090 psi	16.2 grs 8390 psi	17.2 grs 10160 ps
7/8	Fio 616	CB0178			15.5 grs 6700 psi		17.5 grs 9240 psi
7/8	CCI 209	TGT 12			15.2 grs 8600 psi		17.2 grs 10250 ps
7/8	CCI 209M	TGT 12			15.0 grs 8780 psi		17.0 grs 10680 ps
7/8	Nobel Sport	CB0178					17.8 grs 9850 psi
1	Rem 209P	CB4100	15.0 grs 7440 psi	15.7 grs 8470 psi	16.5 grs 9190 psi		
1	Rem 209P	TGT 12	14.5 grs 8970 psi	15.5 grs 9600 psi	16.5 grs 10680 psi		
1	Rem 209P	CB1100	14.5 grs 7460 psi	15.5 grs 8660 psi	16.5 grs 9760 psi		
1	Win 209	CB4100	14.9 grs 8060 psi	15.5 grs 8810 psi	16.3 grs 9800 psi		
1	Win 209	TGT 12	14.5 grs 8770 psi	15.5 grs 10060 psi	16.5 grs 10790 psi		
1	Win 209	CB1100	14.5 grs 8150 psi	15.5 grs 9000 psi	16.7 grs 10350 psi		
1	Cheddite	CB4100	14.5 grs 7676 psi	15.6 grs 8970 psi	16.5 grs 10400 psi		
1	Cheddite	TGT 12	14.5 grs 8930 psi	15.5 grs 10100 psi	16.4 grs 10770 psi		
1	Cheddite	CB1100	14.5 grs 8020 psi	15.5 grs 8700 psi	16.5 grs 9940 psi		
1	Fed 209A	CB4100	14.0 grs 8590 psi	15.0 grs 9200 psi	16.0 grs 10410 psi		
1	Fed 209A	TGT 12	14.0 grs 9810 psi				
1	Fed 209A	CB1100	14.0 grs 9150 psi	15.0 grs 10210 psi			
		12	? Gauge 2 3/4 i	nch Winchest	er AA-HS Plast	ic Shells	
3/4	Win 209	CB0178				15.0 grs 7220 psi	16.0 grs 8240 psi
7/8	Win 209	CB0178		14.5 grs 7410 psi	15.5 grs 8300 psi	16.5 grs 9070 psi	17.5 grs 9950 psi
7/8	Win 209	CB4100		14.8 grs 7330 psi	15.5 grs 7780 psi	16.5 grs 8990 psi	17.2 grs 9920 psi
7/8	Fed 209A	CB0178			15.0 grs 8420 psi	16.0 grs 9800 psi	16.9 grs 10680 ps
7/8	Cheddite	CB0178		14.4 grs 6970 psi	15.4 grs 7850 psi	16.4 grs 8650 psi	17.4 grs 9440 psi
7/8	Win 209	CB1100		14.2 grs 7140 psi	15.2 grs 8120 psi	16.3 grs 8430 psi	17.3 grs 9680 psi
7/8	Fio 616	CB0178			15.5 grs 7950 psi	16.5 grs 8730 psi	17.5 grs 9700 psi
7/8	CCI 209	TGT 12		14.5 grs 7890 psi	15.5 grs 8740 psi	16.5 grs 9840 psi	17.5 grs 10440 ps
7/8	CCI-209M	TGT 12			15.2 grs 9190 psi	16.2 grs 10240 psi	17.2 grs 10820 ps
1	Win 209	CB4100	14.8 grs 8420 psi	15.8 grs 9440 psi	16.8 grs 10510 psi		
1	Win 209	TGT 12	14.7 grs 8690 psi	15.7 grs 9940 psi	16.5 grs 10660 psi		
							continuo

	12 Gauge 2 3/4 inch Winchester AA-HS Plastic Shells continued										
Shot	Primer	Wad		Charge Weight (grains) / Velocity (fps) & Pressure (psi)							
(oz)			1100 fps	1150 fps	1200 fps	1250 fps	1300 fps				
1	Win 209	CB1100	14.8 grs 8550 psi	15.9 grs 9050 psi	16.9 grs 10080 psi						
1	Cheddite	CB4100	14.5 grs 8160 psi	15.5 grs 8910 psi	16.5 grs 10320 psi						
1	Cheddite	TGT 12	14.7 grs 8930 psi	15.7 grs 9880 psi	16.3 grs 10870 psi						
1	Cheddite	CB1100	14.6 grs 8590 psi	15.6 grs 9590 psi	16.6 grs 10380 psi						
1	Fed 209A	CB4100	14.0 grs 8300 psi	15.0 grs 9480 psi	16.2 grs 10500 psi						
1	Fed 209A	TGT 12	14.2 grs 9870 psi	15.1 grs 10460 psi							
1	Fed 209A	CB1100	14.2 grs 9300 psi	15.2 grs 10380 psi	16.0 grs 10740 psi						
1	Rem 209P	TGT 12	14.5 grs 8810 psi	15.5 grs 9900 psi	16.5 grs 10680 psi						
1	Rem 209P	CB4100	14.5 grs 7770 psi	15.5 grs 8740 psi	16.5 grs 10060 psi						
		12 (Gauge 2 3/4 inc	ch Federal® Go	Id Medal® Pla	stic Shells					
3/4	Fed 209A	CB6100					16.0 grs 6990 psi				
7/8	Fed 209A	CB6100		15.0 grs 6390 psi	15.8 grs 6650 psi	16.8 grs 7820 psi	17.6 grs 8710 psi				
7/8	Fed 209A	12SO		15.0 grs 6750 psi	16.0 grs 7760 psi	17.0 grs 8910 psi	18.0 grs 10440 psi				
7/8	Cheddite	CB6100		15.0 grs 5360 psi	16.0 grs 6180 psi	17.2 grs 7300 psi	18.2 grs 8610 psi				
7/8	Fio 616	CB6100			16.2 grs 6590 psi		18.2 grs 7900 psi				
7/8	Win 209	CB6100			16.2 grs 7630 psi		18.2 grs 9390 psi				
7/8	CCI 209M	CB6100			16.3 grs 6820 psi		18.2 grs 8520 psi				
1	Fed 209A	12SO		16.0 grs 8730 psi	17.0 grs 9900 psi						
1	Fed 209A	CB6100		15.7 grs 8280 psi	16.7 grs 9350 psi	17.7 grs 10470 psi					
1	Cheddite	12S0		16.2 grs 8300 psi	17.1 grs 9360 psi	18.1 grs 10250 psi					
1	Cheddite	CB6100		16.0 grs 7560 psi	17.4 grs 8490 psi	18.5 grs 9990 psi					
1	Win 209	12S0			17.3 grs 9700 psi	18.3 grs 10500 psi					
		12	Gauge 2 3/4 in	ch Federal® Go	old Medal® Pa _l	per Shells					
7/8	Fed 209A	CB6100			15.4 grs 6640 psi	16.5 grs 7900 psi	17.4 grs 8890 psi				
7/8	Fed 209A	12S0			15.5 grs 7720 psi	16.5 grs 8680 psi	17.9 grs 10210 psi				
7/8	Fio 616	CB6100			16.0 grs 5830 psi	17.0 grs 7040 psi	18.0 grs 7630 psi				
7/8	Win 209	CB6100			16.2 grs 6170 psi	17.3 grs 7310 psi	18.4 grs 8770 psi				
7/8	CCI 209	CB6100			16.2 grs 6760 psi		18.2 grs 8070 psi				
7/8	CCI 209M	12S0			16.0 grs 7980 psi		18.0 grs 9980 psi				
1	Fed 209A	12SO		16.5 grs 8803 psi	17.5 grs 9860 psi						
1	Fed 209A	CB6100		16.4 grs 9060 psi	17.4 grs 10270 psi						
1	Cheddite	12SO		16.7 grs 8720 psi	17.7 grs 9540 psi	18.8 grs 10420 psi					
1	Cheddite	CB6100		16.5 grs 7410 psi	17.7 grs 8996 psi	18.8 grs 10040 psi					
1	Win 209	CB6100		16.8 grs 7130 psi	17.5 grs 7551 psi	19.0 grs 9340 psi					

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